



## **SITE INVESTIGATION REPORT**

Riverview Industrial Center  
Former Petroleum Distribution Terminal  
5335 River Road  
Tonawanda, New York  
NYSDEC Spill #915225

PREPARED FOR:

**NYSDEC**  
270 Michigan Avenue  
Buffalo, New York 14203

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## **EXECUTIVE SUMMARY**

OP-TECH Environmental Services (OP-TECH) completed a Site Investigation at the Riverview Industrial Center located at 5335 River Road in Tonawanda, New York. This work was completed for Region 9 of the New York State Department of Environmental Conservation (NYSDEC). The Riverview Industrial Center is a former oil storage facility located on a 25.2 acre parcel of land off River Road. Property uses in the vicinity are typically commercial and recreational. The parcel is long and narrow, oriented northwest-southeast with wider portions of the parcel located on the northern and southern ends of the parcel.

The Riverview Industrial Center is an abandoned bulk oil storage facility which has remained vacant and underutilized since the early 1990's. Records indicate that the site was utilized for oil storage since 1937 by various owners. Only the portion of the property abutting River Road was developed. The developed portion of the site contained a two story 10,460 square foot vacant building, truck loading racks along River Road and one 5,000,000 gallon aboveground oil storage tank. Historical records indicate that there were 10 additional above ground tanks (ASTs) at one time with an estimated combined storage capacity of 11,800,000 gallons which were removed around 1994. Earthen berm areas were utilized onsite as containment structures for the above ground storage tanks. Most of this infrastructure has been removed by successive demolition events; however significant belowground infrastructure reportedly exists on site including an oil/water separator, underground piping and underground storage tanks (USTs).

The overall objective of the Site Investigation was to collect enough surface and subsurface information to evaluate the presence/absence of environmental contamination at the Riverview Industrial Center that could influence future development of the property. The following investigative activities were completed to evaluate site conditions and meet the objectives of the Work Plan:

- Preparation of a detailed property and topographic survey;
- Completion of soil borings to a depth of approximately eight feet using direct push technology;
- Completion of test pit excavations to a depth of approximately 10 feet in order to assess and quantify subsurface soil quality;
- Installation of new groundwater monitoring wells using a geotechnical drill rig equipped with hollow stem augers (HSAs);
- Reinstallation of one existing site well;
- Completion of stratigraphic logs and well construction diagrams for soil borings, test pits and installed groundwater monitoring wells;
- Collection of surface soil samples at the direction of the NYSDEC;
- Collection of surface water samples at the direction of the NYSDEC;
- Collection of groundwater samples from existing and new groundwater monitoring wells;
- Collect water, sediment and non-aqueous phase liquid (NAPL) samples from one storm sewer manhole at the direction of the NYSDEC;
- Collect water sediment/sludge and NAPL (if present) from each oil/water separator; and
- Collect water, sludge and product (if present) from each underground storage tank.

This field work was completed with geologists, hydrogeologist, technicians, laborers, drillers, and driller's assistants supplied by OP-TECH and CME Associates.

Twenty-two surface soil samples, four surface water and five sediment samples were collected at locations specified by the NYSDEC.

Forty-six direct push boring locations were advanced to a depth of approximately eight feet below ground surface across the site resulting in the collection of 25 soil samples for chemical analysis. Twenty-one test pits were excavated at locations primarily in the north half of the property. Nine soil samples were collected from the test pits for chemical analysis.

Four new groundwater monitoring wells were also installed at the site resulting in four soil samples for chemical analysis. In addition, groundwater samples were subsequently collected for analysis from the three existing site wells, the four new wells and one replacement well.

Water, sediment and NAPL samples were also collected from the oil/water separator, site sewer, the catch basin manhole, the mechanics pit, and five storage tanks.

Once the analytical results were received from the analytical laboratory, a data usability summary report (DUSR) was completed on the data to review data deficiencies, analytical protocol deviations and general quality control with respect to the data package.

Surface soil samples were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides, polychlorinated biphenyls (PCBs), and metals. Review of the results from 22 surface soil samples indicates that VOCs were detected at low levels in only three of 22 samples; SVOCs were detected in most of the surface soils samples up to 73,760 micrograms per kilogram at SS-3. Pesticide concentrations in site surface soils ranged from non-detect at 12 of 22 locations, up to 230 micrograms per kilogram at SS-1. PCBs were detected in three of 22 samples, while metals detected in the surface soil samples were generally similar to eastern USA background concentrations.

Surface water samples were analyzed for VOCs, SVOCs, pesticides, PCBs, and metals. Review of the results from four samples indicates that VOCs were detected at three sample locations; no SVOCs were detected; pesticides were detected in three of the four surface water samples; and no PCBs were detected.

Soil samples from the soil borings, were analyzed for VOCs, SVOCs, pesticides, PCBs, and metals. Review of the results from 24 samples showed VOCs were detected in 17 of 24 samples; SVOCs were detected in 18 samples; pesticides were detected at nine of 24 samples; PCBs were detected in 2 of 24 samples; and metals were detected in all soils samples at concentrations which are similar to eastern USA background concentrations.

Soil samples from the test pits were analyzed for VOCs, SVOCs, pesticides, PCBs, and metals. Review of the results from eight samples indicates the presence of VOCs from low to high concentrations in all samples; SVOCs detections in six of eight test pit samples; pesticide were detected in five test pit samples; PCB detections in five samples; and metals were detected in all samples at concentrations which are similar to eastern USA background concentrations.

Soil samples from the monitoring wells were analyzed for VOCs, SVOCs, pesticides, PCBs, and metals. Review of the results from four samples indicates that VOCs were detected in only one of the four soil samples analyzed; SVOCs ranged from non-detect at MW-007, to 565 micrograms per kilogram at MW-005. Pesticides and PCBs were not detected in soil samples from the newly installed monitoring wells; and metals were detected at concentrations which are similar to eastern USA background concentrations.

Groundwater samples from the existing and newly installed monitoring wells were analyzed for VOCs, SVOCs, pesticides, PCBs, and metals. VOCs were not detected in four of the eight wells. VOC detections in the other four groundwater samples ranged from 0.53 to 7.13 micrograms per liter. SVOCs were detected in only one groundwater sample (MW-008) at a low concentration (3.1 micrograms per liter). Pesticides were detected in five of the eight groundwater samples at very low concentrations (0.020 to 0.135 micrograms per liter), while PCBs

were not detected in any of the eight groundwater samples. Six metals exceeded were detected at concentrations exceeding TOG 1.1.1 guidance for groundwater.

Non-aqueous phase liquid (NAPL) waste That was sampled had high levels of VOCs and SVOCs; no pesticides or PCBs, and low concentrations of a number of metals. The NAPL waste samples were identified as #2 and #4 fuel oil.

Aqueous samples from the oil/water separator, the sewer line and the mechanics pit showed no VOCs were present. SVOCs were detected in aqueous samples from manhole – 2 and the mechanics pit. Low concentrations of pesticides were detected in the oil/water separator and manhole – 1; and PCBs were also detected in the manhole –1 aqueous sample. Various metals were detected in all four samples from this group.

General site sediment samples and sediment from the catch basin sample were analyzed for VOCs, SVOCs, pesticides, PCBs and metals. The results indicate varying concentrations of VOCs, SVOCs, pesticides, and PCBs with metal generally similar to eastern USA background concentrations.

In general, the northern one-quarter of the site shows impacts from historic operations, whereas results from the chemical analysis of samples collected from the “neck” and southern block of the site shows few environmental impacts.

## **1.0 INTRODUCTION**

OP-TECH was contracted by Region 9 of the NYSDEC to complete a Site Investigation at the Riverview Industrial Center located at 5335 River Road, in the Town of Tonawanda, Erie County, New York. A Work Plan dated March, 2009 was provided by NYSDEC for OP-TECH to implement. A site walk through was completed in April, 2009; investigative field work started on May 4, 2009, and was completed on August 26, 2009. This report provides a summary of the field methods, the sample analytical methods, and the sample analytical results collected as part of this investigation. Per the NYSDEC's request, there are no conclusions or recommendations with this report, only presentation of the field methods and the analytical data.

## **2.0 SITE DESCRIPTION**

The Riverview Industrial Center is a former oil storage facility located on a 25.2 acre parcel off River Road. The site is bordered on the north by River Road and the Niagara River. To the south are vacant wooded land and the Enbridge Energy Tonawanda Station; to the east is an abandoned steel recycling facility; and to the west is Riverview Commerce Park. Property uses in the vicinity are typically commercial and recreational. (Figure 1).

The parcel is long and narrow, oriented northwest-southeast with wider portions of the parcel on the north and south ends that are connected by "narrow neck". The northern portion of the parcel is approximately 300 feet wide by approximately 1,000 feet in length; the central neck is approximately 150 feet wide and 3150 feet long; while the southern portion of the parcel is approximately 450 feet long and 600 feet wide.

## **3.0 SITE HISTORY**

The Riverview Industrial Center is an abandoned oil storage facility which has remained vacant and underutilized since the early 1990's. Records indicate that the site was utilized for oil storage since 1937 by various owners. The parcel approximates an elongated "C" shape with only the portion abutting River Road having been developed. The developed portion of the site contains a two story 10,460 square foot vacant building, truck loading racks along River Road and one 5,000,000 gallon aboveground oil storage tank. Historical records indicate that there were 10 additional above ground tanks (ASTs) at one time with an estimated combined storage capacity of 11,800,000 gallons which were removed around 1994. Earthen berm areas were utilized onsite as containment structures for the above ground storage tanks.

Significant suspected belowground infrastructure exists on site including an oil/water separator and piping in the loading rack area along River Road, an estimated 10,000 gallon heating oil tank adjacent to the building, 2 - 3,000 gallon gasoline/diesel tanks in the north west area of the site, an oil/water separator and 4,000 gallon holding tank for the site sewer located behind the tank farm area near the creek. In addition a site drainage system reportedly runs down the center of the site and numerous underground piping systems may also exist.

## **4.0 SITE INVESTIGATION OBJECTIVES**

The overall objective of the Site Investigation was to collect enough surface and subsurface information to evaluate the presence/absence of environmental contamination at the Riverview Industrial Center that could influence future development of the property. Specific objectives of the investigation included:

- Site evaluation to determine if hazardous substances are present;
- Determine the nature and extent of contamination at the site; and

- Evaluate groundwater quality and flow patterns.

These objectives were accomplished through completion of a soil boring and test pit program, collection of surface soil samples, installation of groundwater monitoring wells, collection and analysis of surface soil, subsurface soil, waste, sump water, surface water, groundwater, and sludge samples.

## **5.0 SCOPE OF WORK**

The following investigative activities were completed to evaluate site conditions and meet the objectives of the Work Plan:

- Preparation of a detailed property and topographic survey;
- Completion of soil borings to a depth of approximately eight feet using direct push technology;
- Completion of test pit excavations to a depth of approximately 10 feet in order to assess and quantify subsurface soil quality;
- Installation of new groundwater monitoring wells using a geotechnical drill rig equipped with hollow stem augers (HSAs);
- Reinstallation of one existing site well;
- Completion of stratigraphic logs and well construction diagrams for soil borings, test pits and installed groundwater monitoring wells;
- Collection of surface soil samples at the direction of the NYSDEC;
- Collection of surface water samples at the direction of the NYSDEC;
- Collection of groundwater samples from existing and new groundwater monitoring wells;
- Collect water, sediment and NAPL samples from one storm sewer manhole at the direction of the NYSDEC;
- Collect water sediment/sludge and NAPL (if present) from each oil/water separator; and
- Collect water, sludge and product (if present) from each underground storage tank.

This field work was completed with geologists, hydrogeologist, technicians and laborers drillers, and driller's assistants supplied by OP-TECH and CME Associates. The following sections of this report provide a detailed description of the activities that were required to complete this work.

### **5.1 Detailed Property Survey and Mapping.**

William Schutt and Associates, a New York State Licensed Surveyor was retained to construct a base map with all site structures (Figure 2 and 3). Included on this map are:

- Horizontal locations and ground surface elevations of all surface soil location, soil borings, and test pit locations that were completed during the Site Investigation; and
- Horizontal locations and vertical elevations of all monitoring wells (new and existing), including ground surface elevation and the elevation of the inner PVC riser for each well.

In addition, NYSDEC requested a topographic map to be developed for the front or northern part of the property. This map is attached as Figure 4.

Vertical control was established to the nearest +/- 0.1 foot for all ground surface elevations, as well as for well riser elevations relative to the North American Vertical Datum of 1988 (NAVD 88), with reference made to an existing monument in the vicinity of the site. Horizontal coordinates are in the State Plane East Zone (feet), North American Datum (NAD) of 1983 to an accuracy of +/- 0.5 foot.



## **5.2 Surface Soil and Surface Water Samples**

On May 15 through May 29, 2009, twenty-two surface soil, four surface water and five sediment samples were collected at locations specified by the NYSDEC. Surface soil locations are denoted in the text, on report tables and on report figures as “SS” samples. Surface soils were collected as grab samples from ground surface to a depth of approximately two inches directly into clean glassware supplied by the contract laboratory.

Surface water samples were also collected at locations specified by the NYSDEC and are denoted in the text, on report tables, and on report figures as “SW” samples.

Sediment samples were also collected at locations specified by the NYSDEC and are denoted in the text, on report tables, and on report figures as “SED” samples.

Once collected, these samples were placed in clean glassware provided by the contract laboratory, labeled with a unique sample identification code (i.e., SS-X, SW-X or SED-X), packed in a cooler with ice, and shipped under chain-of-custody control to the contract laboratory. These samples were analyzed for Target Compound List (TCL) semivolatile organic compounds (SVOCs), TCL pesticides, TCL PCBs and Target Analyte List (TAL) metals. Table 1 provides a list of the surface soil and surface water samples.

## **5.3 Soil Boring and Test Pit Program**

From May 4 through May 7, 2009, forty-six direct push soil borings were advanced at the site. Twenty-one soil borings were advanced in the north area, 15 soil borings were advanced in the “neck” of the property, and six soil borings were advanced in the southern property block (Figure 2). Soil boring locations were selected by the NYSDEC and sample locations are annotated as SB-1 through SB-25, and B-1 through B-21. Soil borings were advanced with a Geoprobe® Model 6610DT unit to depths of approximately eight feet, and several to 12 feet. Continuous sample cores of overburden were collected using a MacroCore barrel with clean dedicated acetate liners. Sample cores were screened for organic vapors using a photoionization detector (PID). If no evidence of contamination was present, then a composite soil sample from the entire length of the soil core was collected. Recovered soil samples were characterized with respect to predominant soil type (i.e., gravel, sand, silt, clay) color, and relative moisture content (i.e., moist, wet, saturated). This information was then placed in the field book so that geologic logs of subsurface materials could be generated. Samples for chemical analysis were not collected from each boring. Table 1 provides a list of the soil boring samples, and the soil boring logs are attached as Appendix A.

Twenty-one test pits were excavated at the locations shown on Figures 2 and 3 using a Case 580L tire mounted back hoe. Test pits were excavated to a depth of approximately 10 feet below ground surface at locations selected by the NYSDEC. A test pit log was sketched for each test pit to describe general subsurface conditions, and to describe to location of sampling points prior to pit closure. Samples for chemical analysis were not collected from all test pits. Table 1 provides a list of the test pit samples, and the test pit logs are attached as Appendix B.

To the extent possible, soil cores and test pit spoils were placed back into the borings or test pits, and/or spread on the ground surface near each boring or test pit.

Twenty-five soil samples were collected from the soil borings; eight soil samples and one water sample were collected from the test pits for chemical analysis, based on PID readings, the presence of visible staining, and odors. Soil samples were placed in clean glassware provide by the contract laboratory using protocols previously discussed, and were analyzed for TCL VOCs, TCL SVOCs, TCL pesticides, TCL PCBs and TAL metals.

Samples were placed in clean glassware provided by the contract laboratory, labeled with a unique sample identification code, packed in a cooler with ice, and shipped under chain-of-custody control to the contract laboratory.

#### ***5.4 Groundwater Monitoring Wells***

Four new groundwater monitoring wells were installed at the locations shown on Figure 2. A CME 55 track mounted drill rig was used to install the wells to a depth of approximately 30 feet below ground surface. The wells were installed with 4 ¼ inch hollow stem augers (HSAs) along with continuous split spoon sampling. Table 2 provides a summary of the groundwater monitoring well numbers and construction information. Boring logs for the groundwater monitoring wells are attached as Appendix C.

The wells were constructed of two inch diameter threaded flush joint schedule 40 PVC screen with 0.010 inch slots, threaded bottom plugs, and flush-threaded PVC riser pipe. Well screens were 10.0 feet spanning the saturated thickness of the water bearing zone encountered. A filter pack consisting of #2 silica sand was placed in the annular space between the well screen and the borehole to approximately two feet above the well screen. A two foot thick bentonite seal comprised of bentonite pellets was then placed above the filter pack. The bentonite pellets were then allowed to hydrate. Once hydrated, a 5% bentonite-cement grout was placed in the annular space to the ground surface. An above ground protective casing with a locking cap was then in cement at the surface to protect each well at the surface. Well construction diagrams are also attached to the boring logs in Appendix C.

Newly installed groundwater monitoring wells that could be accessed by truck were developed using a “Vac” truck. The well contents were evacuated, and the wells were then allowed to recharge. This process was repeated multiple times until the water clarity was good. More remote wells were hand developed using bailers. Well development water was containerized in 55-gallon drums pending analytical results. The four existing site groundwater monitoring wells were also developed for sampling. Existing site wells were also “jetted” with compressed air to loosen sediment that had settled to the bottom of the well and compacted. During this process, one of the existing wells (MW-2) was noted to be damaged. This well was subsequently decommissioned with a Dietrich 120 truck mounted drill and replaced with monitoring well MW-2R. MW-003 could not be entered and is collapsed at 17.0 feet. Well development information is summarized on Table 2A.

Once developed, the four existing site groundwater monitoring wells and the four newly installed wells were sampled using dedicated bailers. Three well volumes of water were removed prior sample collection. Groundwater samples were placed in clean glassware supplied by the contract laboratory. The jars were labeled with a unique sample identification code, packed on ice in a cooler and shipped to the contract laboratory under chain-of-custody control. Groundwater samples were analyzed for TCL VOCs, TCL SVOCs, TCL pesticides, TCL PCBs and TAL metals.

#### ***5.5 Oil/Water Separators, Site Sewer and Underground Storage Tanks***

One oil/water separator, one catchment basin manhole, a central site storm sewer, four USTs, one AST, and the mechanic’s pit were sampled as part of field investigative activities (Figure 3). Four water (OWS-1, MH-1, MH-2, and T-4 NAPL); two sediment/sludge sample (SS-1, mechanic’s pit) and five NAPL samples (T-1 through T-5) were collected as part of this task, which are described on Table 1.

Tanks 1 and 2 (estimated at 4,000 gallons each) are USTs located along the western property boundary approximately 150 to 200 feet south of River Road between soil borings SB-2 and SB-8. Tank 3 (estimated at 10,000 gallons) is also a UST located along the east side of the former building near soil boring SB-21. Tank 4 is also a UST (estimated at 12,000 gallons), and is located due west of the oil/water separator between borings

SEPNW and SEPSE. Tank 5 was an above ground storage tank (AST) at the southeast corner of the former building that has been removed.

Samples were placed in clean glassware and shipped to the contract laboratory using the same sampling protocols used for other sample collection events. Samples were analyzed for TCL VOCs, TCL SVOCs, TCL pesticides, TCL PCBs, and TAL metals. NAPL samples were also analyzed for petroleum identification.

### ***5.6 Suspected Drum Area and Tank 10 Lagoon Sampling***

During late July and early August, AST #4 (a 5,000,000 tank) was decommissioned and removed from the site. During post removal grading activities, a suspected drum burial area was uncovered by the excavation contractor. This was further investigated on August 26, 2009, when six test trenches were excavated to investigate the area AST just south of AST #4. Several drums were uncovered in the test trenches that were excavated (Figure 3). In addition, groundwater with free product entered Test Trench 3. Soils from test trenches were left piled at the site and a sample was collected for disposal purposes. Soil sample analyses include TCLP benzene, TCLP lead, flashpoint, total petroleum hydrocarbons (TPH) and pH for disposal purposes.

The tank 10 lagoon was also investigated on August 26, 2009 to characterize sediment quality. One sediment sample was collected using a backhoe from the location shown on Figure 3. The sediment sample was given a unique sample identification codes (L10-1), and was analyzed for TCL VOCs, TCL SVOCs, TCL pesticides, PCBs and TAL metals. The addendum report along with analytical results for these samples is also provided as an addendum to this report (Appendix E).

## **6.0 SAMPLE ANALYSIS**

A total of 89 investigative samples were collected as part of this project. For each sampling event, the same protocols were followed:

- Dedicated or clean sampling equipment was used to collect each sample so that cross contamination could not take place;
- Each sample was given a unique sample identification code;
- Each sample was placed in clean glassware provided by the contract laboratory, then placed in a cooler and packed on ice;
- Coolers were shipped to the contract laboratory to undergo the respective analytical procedure; and
- All samples were shipped using chain-of-custody protocols.

Test America in Amherst, New York provided all analytical services for the soil, sediment, sludge, surface water, groundwater and NAPL samples that were collected as part of this project.

## **7.0 DATA USABILITY SUMMARY REPORT (DUSR)**

Once the analytical results were received for Test America, a data usability summary report (DUSR) was completed to determine whether or not the data meets the specific criteria for data quality by USEPA Region 2 Data Validation Guidelines. Data deficiencies, analytical protocol deviations and quality control problems were identified and the effect on the data was discussed. The DUSR was completed and has already been forwarded to the NYSDEC under separate cover.

## 8.0 FINDINGS AND RESULTS

### 8.1 Geology

Based on observations collected during the installation of monitoring wells, the completion of soil borings and tests pits, subsurface conditions across the site are variable. The site can be roughly broken into two separate parts spatially, with the small stream in the middle of the site located south of monitoring wells MW-001 and MW-004 and north of MW-007.

*Northern Quarter.* The area north of the stream is dominated by fill materials especially noted in the former above ground storage tank area as documented in test pit logs, and select direct push boring logs. The subsurface in this area was a non-homogeneous mixture of gravels, sands clays and silts. The areas where the test pits were completed were likely reworked to create the berm system that is present on site, with a number of test pits (TP-4, TP-5, TP-6, TP-12, TP-16, TP-18 and TP-19) showing evidence of petroleum impacts. PID readings in these test pits ranged from non-detects (below 10 ppm) to 1,000+ ppm at TP-10 at a depth of 10 feet below grade. Just north of the small creek is reportedly an area where construction and demolition debris was buried and covered with a veneer of topsoil.

Direct push soil borings labeled “SB” borings were completed north of the small creek and the former AST dike areas. Soils in these borings were primarily a mixture of clays and silts with several notable areas of sediment with different composition as follows: SB-5 and SB-6 contained areas of silty sand at 1 to 5 feet below grade and SB-7, which had silty sand located at 5 to 9 feet below grade. Boring SB-12 is predominantly sand between 1 and 10 feet below grade. There are other sandy clay areas in borings SB-19 through SB-21 at depths ranging between 1 and 12 feet below grade.

In the northernmost portion of the site, elevated PID readings above site background were observed in borings SB-1, SB-5, SB-7 through SB-10, SB-13 and 14, and SB-16 through SB-19.

*Southern Three Quarters of the Site.* In the area south of the small creek, soils are dominated by clays and silts. Direct push borings labeled “B”s were advanced in this area. Borings B-4 through B-10 and B-17 through B-21 were primarily sandy silts and clays. The remaining borings consist of silty clays and clayey silts with reduced amounts of sand. There were no elevated PID results from soil borings in this area of the site.

Bedrock was not encountered in any of the groundwater monitoring wells that were installed. Thus, bedrock exists at a depth greater than 32 feet below grade.

### 8.2 Hydrogeology

Depth to groundwater was highly variable across the site, and was encountered as deep as 29.04 feet at MW-006, to a shallow depth of 5.12 feet at MW-2R (Table 2). Depth to groundwater exceeded 25 feet at two locations (MW-006 and MW-007), but in general was less than 10 feet below grade. Groundwater elevations ranged from 555.16 feet at MW-007, to a high of 592.89 feet at MW-008. Groundwater elevations are highest in the southern portion of the site (MW-008 and MW-009), and slope northward to the central area of the site, where the groundwater elevation is 555.16 feet at MW-007. Groundwater elevations then generally increase toward the northern end of the site to between 567.15 feet at MW-006, to 579.31 feet at MW-004. MW-005 at 556.05 feet and MW-002 at 591.46 are exceptions to this general trend.

### **8.3 Site Infrastructure**

During August 2009, most of the infrastructure on the northern developed portion of the site was razed. The two story 10,460 square foot vacant building, truck loading racks along River Road and the 5,000,000 gallon aboveground oil storage tank were all decommissioned. The USTs are still in place at this time, as are the earthen berm areas that were utilized onsite as containment structures for the above ground storage tanks.

### **8.4 Surface Soil Sample Analytical Results**

VOC concentrations in surface soils were non-detect in 19 of 22 samples, with VOCs detected in samples SS-1, SS-5 and SS-11 up to 67.1 micrograms per kilogram. Acetone in SS-11 exceeded the Part 375 soil cleanup objective (SCO) for unrestricted use.

SVOC concentrations in surface soil samples are summarized on Table 3B. SVOC concentrations in site surface soils ranged from non-detect at two locations (SS-5 and SS-15), up to 19 SVOCs detected in the other site surface soil samples at concentrations up to 73,760 micrograms per kilogram at SS-3. Seven SVOCs exceeded the Part 375 SCO for unrestricted use.

Pesticide concentrations in site surface soils are summarized on Table 3C. Pesticide concentrations in site surface soils ranged from non-detect at 12 of 22 locations, up to 230 micrograms per kilogram at SS-1. Except for 1.8 micrograms per kilogram at SS-2, all pesticide values were estimated values. However, two pesticides exceeded the Part 375 SCO for unrestricted use.

PCB concentrations in site surface soils are summarized on Table 3D. PCB concentrations in site surface soils ranged from non-detect at 20 of 22 locations, to 100.0 micrograms per kilogram at SS-2. There were no exceedances of the Part 375 SCO for unrestricted use.

Metals concentrations in site surface soils are summarized on Table 3E, and generally are similar to eastern USA background concentrations.

### **8.5 Surface Water Sample Analytical Results**

VOC concentrations in site surface water samples are summarized in Table 4A. VOCs were not detected in sample SW-1, but were detected in the other three surface water samples at estimated (J) values. Detections were below TOGS 1.1.1 Guidance values.

SVOC concentrations in surface water samples are summarized on Table 4B. There were no SVOCs detected in the four surface water samples.

Pesticide concentrations in site surface water are summarized on Table 4C. Pesticides were not detected in surface water sample SW-1, but were detected at estimated (J) values in three of the four surface water samples at up to 0.074 micrograms per liter. All detections were below TOG 1.1.1 guidance values.

PCB concentrations in site surface water are summarized on Table 4D. There were no PCBs detected in the four surface water samples collected.

Metals concentrations in site surface water are summarized on Table 4E.

## **8.6 Boring Sample Analytical Results**

VOC concentrations in soil borings are summarized on Table 5A. VOC concentrations in the 24 soil boring samples ranged from non-detect at seven locations, up to 31,194 micrograms per kilogram at SB-18 (1-4). Acetone, benzene, ethylbenzene and total xylenes exceeded Part 375 SCOs for unrestricted use at seven locations.

SVOC concentrations (summarized on Table 5B) in soil boring samples ranged from non-detect at six locations, up to 138,240 micrograms per kilogram at SB-1 (1-4). Benzo(a)pyrene and chrysene exceeded Part 375 SCOs for unrestricted use at SB-16.

Pesticide concentrations (summarized on Table 5C) in soil boring samples ranged from non-detect in nine of 24 samples, up to 8.1 micrograms per kilogram at SB-18 (1-4). There were no exceedances of Part 375 SCOs for unrestricted use.

PCB concentrations (summarized on Table 5D) in soil boring samples ranged from non-detect at 22 of 24 locations, up to 29.0 micrograms per kilogram at SB-12 (1-3). There were no exceedances of the Part 375 SCOs for unrestricted use.

Metals concentrations are summarized on Table 5E, and generally are similar to eastern USA background concentrations.

## **8.7 Monitoring Well Soil Sampling Results**

VOC concentrations (summarized on Table 5A) in soil samples from the four new monitoring wells ranged from non-detect at MW-005, MW-006, MW-007, to 1.2 micrograms per kilogram at MW-008 with no exceedance of Part 375 SCOs for unrestricted use.

SVOC concentrations in soil samples from the four new monitoring wells (summarized on Table 5B) ranged from non-detect at MW-007, to 565.0 micrograms per kilogram at MW-005 with no exceedance of Part 375 SCOs for unrestricted use..

Pesticides were not detected in soils samples from the four new monitoring wells (summarized on Table 5C).

PCBs were also not detected in soil samples from the four new monitoring wells (summarized on Table 5D).

Metals concentrations in soil samples from the four new monitoring wells are summarized on Table 5E and generally are similar to eastern USA background concentrations.

## **8.8 Test Pit Sample Results**

All eight soil samples and one water sample from test pits had detections of VOCs. The water sample (WS4P) had a total concentration of VOCs of 1,505.80 micrograms per liter. VOCs in test pit soil samples ranged from a low concentration of 26.0 micrograms per kilogram at TP-6P, to a high concentration of 223,710.0 micrograms per kilogram at TP-21. Acetone, benzene, ethylbenzene, toluene and total xylenes were detected at concentrations above Part 375 SCOs for unrestricted use.

SVOC concentrations in the eight test pit soil samples (summarized on Table 5B) ranged from non-detect at TP-4 and TP-6B, up to 134,540 micrograms per kilogram at test pit TP-21. Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene and naphthalene were detected in TP-21 at

concentrations that exceeded Part 375 guidance for unrestricted use, while naphthalene was detected in TP-6 above Part 375 SCO for unrestricted use.

Pesticide concentrations in the eight test pit soil samples (summarized on Table 5C) ranged from non-detect at three locations, to 509.0 micrograms per kilogram at test pit TP-6. There were no exceedances of part 375 SCO for unrestricted use.

PCB concentrations in soil samples from the eight test pit samples (summarized on Table 5D) ranged from non-detect at five locations, up to 20,000.0 micrograms per kilogram at TP-6, which exceeds the Part 375 SCO for unrestricted use.

Metals concentrations in soil samples from the 21 test pits are summarized on Table 5E and generally are similar to eastern USA background concentrations.

### ***8.9 Groundwater Sample Results***

VOC concentrations in groundwater samples from the four new monitoring wells and four existing wells (summarized on Table 6A) ranged from non-detect in four of the eight wells sampled, to 7.13 micrograms per liter at MW-007. None of the VOCs detected were BTEX compounds. Only two VOCs were detected below TOGS 1.1.1 groundwater guidance values.

SVOC concentrations in groundwater samples from the eight wells sampled (summarized on Table 6B) were not detected in seven of the eight wells. Only one SVOC was detected at a J value of 3.1 micrograms per liter in MW-008 below the TOGS 1.1.1 groundwater guidance value.

Pesticide concentrations in groundwater samples from the eight wells sampled (summarized on Table 6C) ranged from non-detect in three of the eight wells up to 0.135 micrograms per liter at MW-005. Endosulfan at MW – 005 exceeded the TOGS 1.1.1 groundwater guidance value.

PCBs were not detected in any of the eight groundwater samples that were analyzed.

Metals concentrations in groundwater samples from the four new monitoring wells and four existing wells are summarized on Table 6E. Six metals exceeded the TOGS 1.1.1. groundwater guidance values.

### ***8.10 Underground Storage Tank Samples***

Seven VOC were detected in UST NAPL waste samples (summarized on Table 7A) consisting mostly of benzene, hexane, toluene and xylene compounds. Ten SVOCs were also detected in UST NAPL samples (summarized on Table 7B). Pesticides were not analyzed for in the NAPL samples and there were no PCBs found in the NAPL samples (Table 7D). Metals concentrations in UST NAPL samples are summarized on Table 7E.

Material identification testing on the NAPL samples revealed the following:

- Sample T-1 NAPL is from #2 fuel oil;
- Sample T-2 NAPL is from #4 fuel oil;
- Sample T-3 NAPL is from #2 fuel oil;
- Sample T-4 NAPL is from #4 fuel oil; and
- Sample T-5 NAPL is from #4 fuel oil.

### ***8.11 Oil/Water Separator, Site Sewer, Mechanics Pit***

VOCs were not detected in water samples from the oil/water separator, site sewer and mechanics pit (summarized on Table 8A).

SVOC concentrations in water samples from the oil/water separator, site sewer and mechanics pit (summarized on Table 8B) ranged from non-detect in the oil/water separator and manhole 2, up to 22.36 micrograms per liter in manhole 1 and 2.9 micrograms per liter at the mechanics pit. All values were estimated (J) values. Four SVOCs exceeded TOGS 1.1.1 water guidance values at MH-1.

Gamma chlordane was the only pesticide detected in this sample set at values below TOGS 1.1.1 guidance values (Table 8C).

PCB concentrations in water samples from the oil/water separator, site sewer and mechanics pit were non-detect in OWS-1, MH-2 and the mechanics pit. PCB concentrations in MH-1 were 0.33 micrograms per kilogram as an estimated (J) value (summarized on Table 8D).

Metals concentrations in water samples from the oil/water separator, site sewer and mechanics pit are summarized on Table 8E.

### ***8.12 Sediment Samples, Outflow and Catch Basin Samples***

VOC concentrations in sediment samples from this group (summarized on Table 9A) were non-detect in sample SED-3-OF (the outflow), and up to 492.5 micrograms per kilogram in the SED-2 sample. Total VOCs in the other samples in this category ranged from 5.2 micrograms per kilogram at SED-4 (estimated J value) to 492.5 micrograms per kilogram in the SED-2 sample.

SVOC concentrations in sediment samples from this group of samples (summarized on Table 9B) ranged from 374 micrograms per kilogram at SED-5, to 1,054,300 micrograms per kilogram at SED-2. Most of the samples required dilution to attain usable values and are reported as estimated (J) values.

Pesticide concentrations in sediment samples from this group (summarized on Table 9C) were non-detect at SED-3-OF and SED-5, but ranged from 3.8 micrograms per kilogram at SED-4 up to 142 micrograms per kilogram at SED-6.

PCB concentrations in sediment samples from this group were non-detect at SED-3-OF, SED-5, SED-6 and SS-1. PCB concentrations were 46 micrograms per kilogram at SED-4, and 290 micrograms per kilogram at SED-2 (Table 9D).

Metals concentrations in sediment samples from this group are summarized on Table 9E, and were generally similar to eastern USA background levels.

## **9.0 ANALYTICAL REPORTS**

Analytical laboratory reports from Test America, the contract laboratory, have been forwarded to the NYSEDEC in advance of this report (Appendix D).

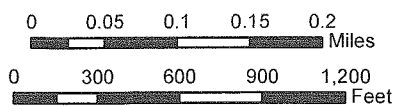


## **10.0 SUMMARY**

The site investigation for the Riverview Industrial Center was completed in accordance with the NYSDEC Work Plan dated March of 2009. OP-TECH completed this work at the direction of NYSDEC Region 9 personnel. Chemical analysis of samples was completed by Test America, under direct contract to the NYSDEC. Sample results indicate impacts from historic operations on the northern half of the property, with few impacts on the southern half of the property, south of the small creek that crosses the property.

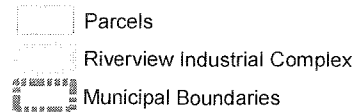
The DUSR and additional sampling completed the last week of August was forwarded to the NYSDEC under separate cover.

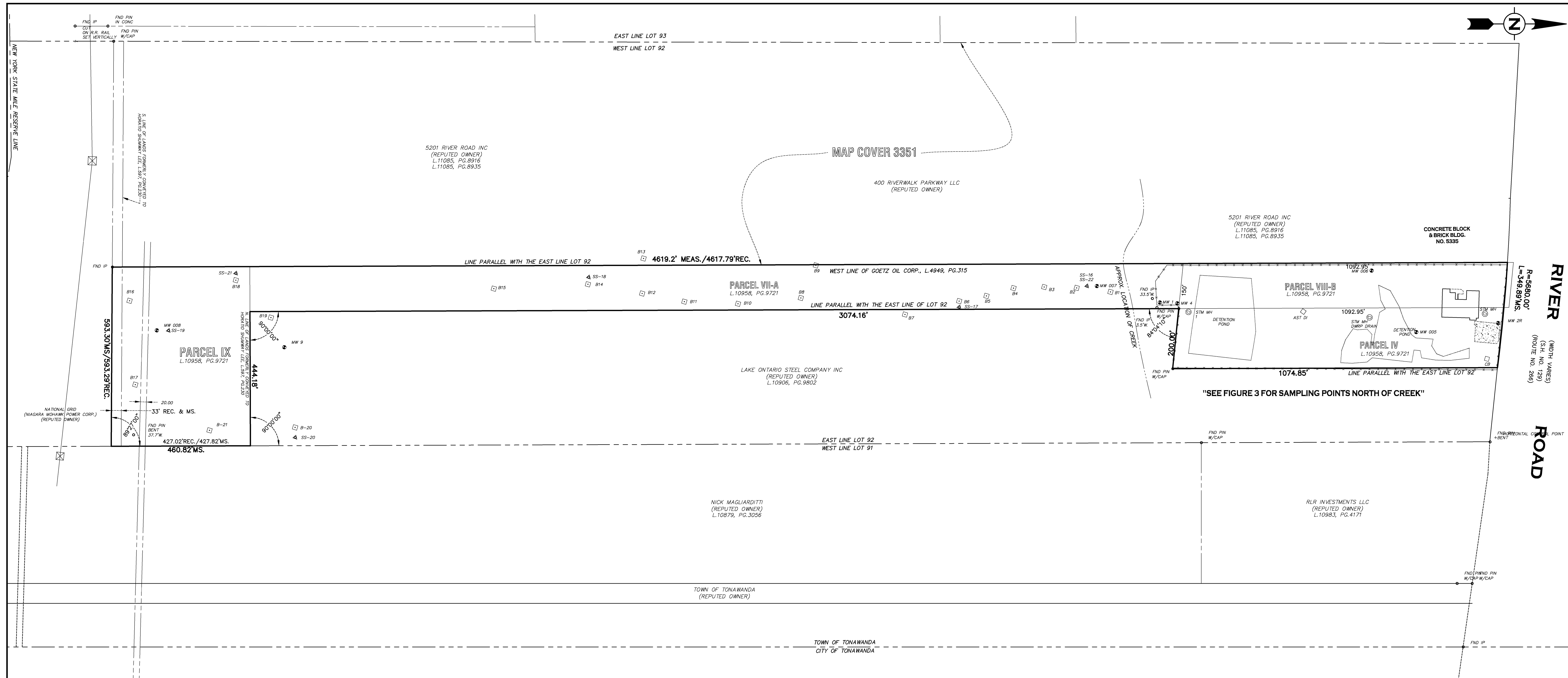
## **FIGURES**



5335 River Road (SBL: 52.06-3-10)  
Riverview Industrial Complex

**Figure 1: Site Location Map**





POINT	ELEVATION	POINT	ELEVATION	POINT	ELEVATION	POINT	ELEVATION
B1	580.95	SB 1	597.62	MW 1	592.20	TP 1	588.64
B2	587.03	SB 2	597.78	MW 4	589.28	TP 2	588.72
B3	592.31	SB 3	597.77	MW 005	597.81	TP 3	590.54
B4	595.56	SB 4	597.78	MW 06	600.13	TP 4	580.53
B5	595.73	SB 5	598.64	MW 007	584.32	TP 4P	589.90
B6	595.52	SB 6	598.25	MW 008	603.08	TP 5	589.79
B7	597.96	SB 7	597.94	MW 9	603.12	TP 6	590.05
B8	598.83	SB 8	598.25	DWRP DRAIN	592.20	TP 7	590.37
B9	598.96	SB 9	597.78	SEPS	588.26	TP 8	590.96
B10	597.16	SB 10	597.06	SEPS	598.15	TP 9	591.67
B11	594.75	SB 11	598.26	SO-F	583.52	TP 10	594.85
B12	587.64	SB 12	598.04	SS-1	597.24	TP 11	599.80
B13	599.14	SB 13	597.42	SS-2	594.00	TP 12	592.76
B14	594.77	SB 14	598.02	SS-3	597.90	TP 13	593.47
B15	597.66	SB 15	597.90	SS-4	594.06	TP 14	597.04
B16	600.99	SB 16	598.32	SS-5	598.75	TP 15	598.76
B17	598.75	SB 17	597.60	SS-6	593.54	TP 16	593.00
B18	599.57	SB 18	597.79	SS-7	594.62	TP 17	597.57
B19	600.53	SB 19	597.84	SS-8	599.39	TP 18	594.42
B20	599.60	SB 20	597.68	SS-9	593.46	TP 19	597.94
B21	599.87	SB 21	594.57	SS-10	594.90	TP 20	598.94
				SS-11	597.67	TP 21	597.50
				SS-12	589.71		
				SS-13	590.49		
				SS-14	588.83		
				SS-15	589.00		
				SS-16	579.72		
				SS-17	592.31		
				SS-18	595.52		
				SS-19	598.96		
				SS-20	587.64		
				SS-21	597.66		
				SS-22	599.57		

## LEGEND

- 4. SURFACE SOIL SAMPLE POINT (SS-1)
- 5. SOIL BORE HOLE (SB-1)
- 6. TEST PIT (TP-1)
- 7. MONITORING WELL (MW-1)
- 8. SURFACE WATER SAMPLE POINT (SW-1)
- 9. SEDIMENT SAMPLE POINT (SED-1)

### BENCHMARK TABLE (DATUM NAVD '88)

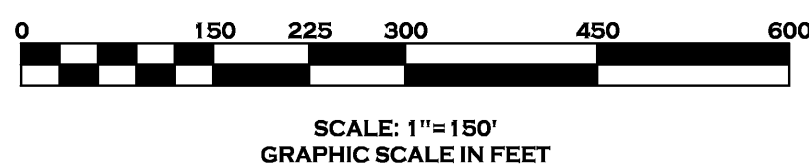
DESIGNATION	ELEVATION	DESCRIPTION
1	573.77	NGS MONUMENT "RAMP USLS" PID-OG0150
2	600.02	TOP SHUT OFF NUT, FIRE HYDRANT LOCATED IN FRONT OF BUILDING NO.5335 RIVER ROAD

## NOTES

1. MONITORING WELLS ELEVATIONS ARE THE TOP OF THE PVC CASING PIPE
2. SEE FIGURE 3 FOR SAMPLING POINTS NORTH OF THE CREEK

[illegible]

THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF AN UP-TO-DATE ABSTRACT OF TITLE AND IS SUBJECT TO ANY STATE OF FACTS THAT MAY BE REVEALED BY AN EXAMINATION OF SUCH.



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	DRAWN BY: CJM
	CHECKED BY: GCW
	DATE: 08/31/2009
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**TOWN OF TONAWANDA  
COUNTY OF ERIE, STATE OF NEW YORK  
PART OF LOT 92 MILE RESERVE  
HOLLAND LAND COMPANY'S SURVEY**

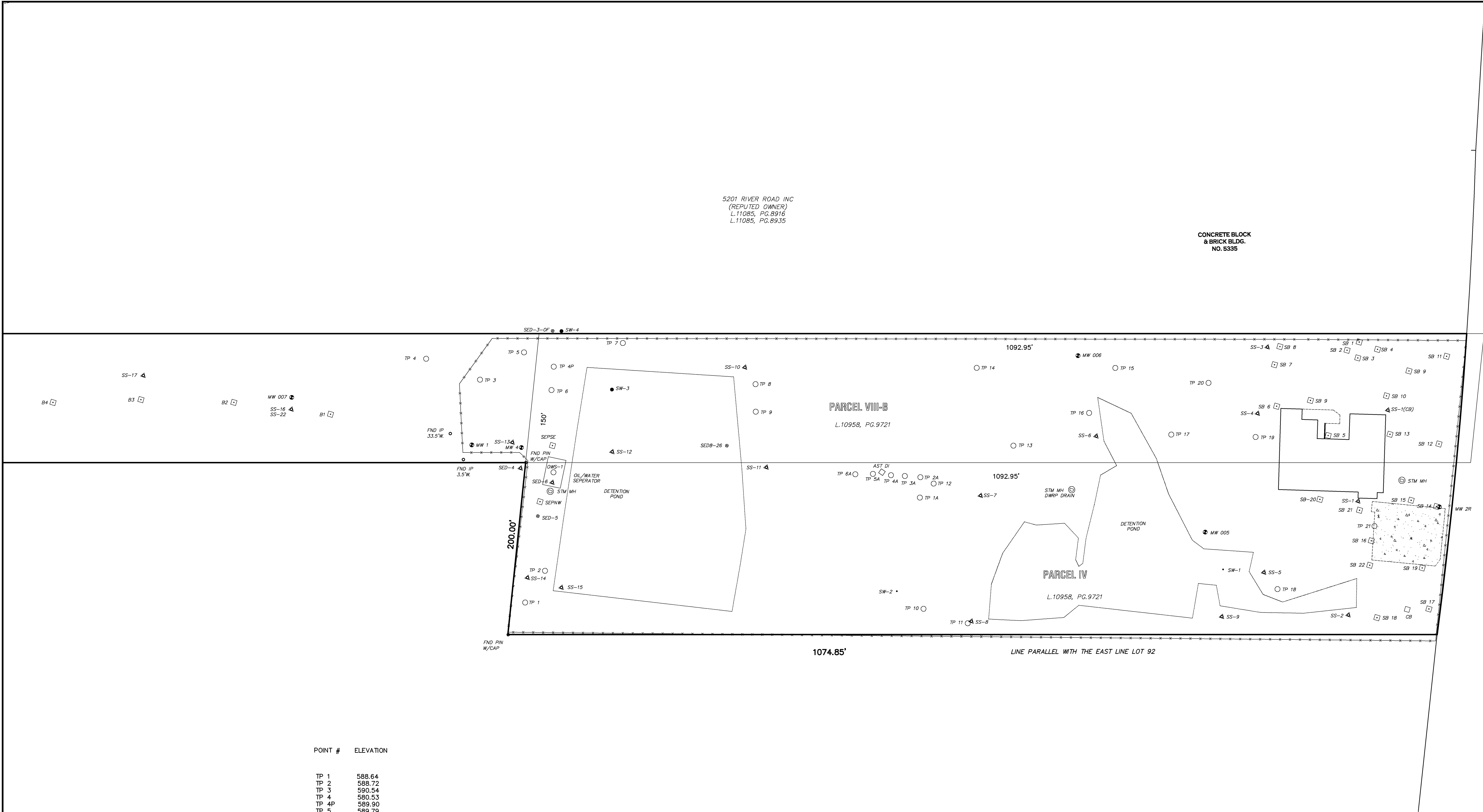
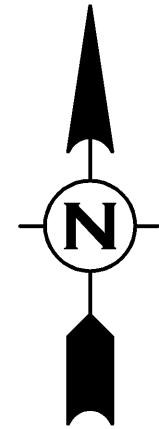
# 5335 RIVER ROAD BOUNDARY & TOPOGRAPHIC SURVEY



**FIGURE 2**

**DRAWING SCALE: 1" = 150'**

**SURVEY FILE/C:09065-02**  
**WSA PROJECT NO. 09065**



RIVER  
ROAD  
(ROUTE NO. 286)  
(S.H. NO. 129)  
R=5680.00'  
L=349.89 MS.

POINT # ELEVATION

TP 1	588.64
TP 2	588.72
TP 3	580.54
TP 4	580.53
TP 4P	589.90
TP 5	589.79
TP 6	590.05
TP 7	590.37
TP 8	590.98
TP 9	591.67
TP 10	594.85
TP 11	599.80
TP 12	592.76
TP 13	593.47
TP 14	597.04
TP 15	596.77
TP 16	593.00
TP 17	597.57
TP 18	594.42
TP 19	597.94
TP 20	598.94
TP 21	597.50

### BENCHMARK TABLE (DATUM NAVD '88)

DESIGNATION	ELEVATION	DESCRIPTION
1	573.77	NGS MONUMENT "RAMP USLS" PID--0G0150
2	600.02	TOP SHUT OFF NUT, FIRE HYDRANT LOCATED IN FRONT OF BUILDING NO.5335 RIVER ROAD

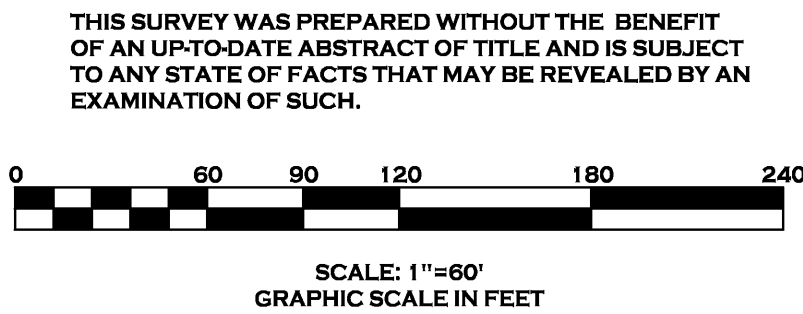
### NOTES

1. TEST PITS TP 1A THRU TP 6A ARE ASSOCIATED WITH DRUM INVESTIGATION "ADDENDUM REPORT"

### LEGEND

- ▲ SURFACE SOIL SAMPLE POINT (SS-1)
- SOIL BORE HOLE (SB-1)
- TEST PIT (TP-1) & (TP-1A)
- MONITORING WELL (MW-1)
- SURFACE WATER SAMPLE POINT (SW-1)
- SEDIMENT SAMPLE POINT (SED-1)

DRAWING REVISIONS		
ITEM	DATE	DESCRIPTION
1	02/04/2010	REVISED PER NYSDEC COMMENTS



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**TOWN OF TONAWANDA**  
**COUNTY OF ERIE, STATE OF NEW YORK**  
**PART OF LOT 92 MILE RESERVE**  
**HOLLAND LAND COMPANY'S SURVEY**

**5335 RIVER ROAD**  
**BOUNDARY & TOPOGRAPHIC SURVEY**

**ENGINEERING**  
**LAND SURVEYING**  
**WM. SCHUTT & ASSOCIATES, P.C.**  
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**FIGURE 3**

DRAWING SCALE: 1"=60'  
SURVEY FILE: C/09065-02  
WSA PROJECT NO. 09065





## **TABLES**

OP-TECH							28-Aug-09							
TABLE 1: RIVERVIEW INDUSTRIAL CENTER SAMPLE SCHEDULE														
Media	Identifier	Date	Matrix	Type	# of Locations	# Samples	Analysis Required							
							VOCs	SVOCs	PEST	PCBs	Metals			
Surface Soil Tables 3A-3D	SS-1 to SS-22	5/15/2009	Solid	Grab	22	22	X	X	X	X	X			
Surface Water Tables 4A-4D	SW-1	5/18/2009	Water	Grab	4	4	X	X	X	X	X			
	SW-2	5/18/2009	Water	Grab			X	X	X	X	X			
	SW-3	518/2009	Water	Grab			X	X	X	X	X			
	SW-4	5/29/2009	Water	Grab			X	X	X	X	X			
Soil Boring Samples Tables 5A-5E	SB-1 (1-3)	5/4/2009	Solid	Grab	21 SB locations & 21 B locations Total = 42 Locations	25	X	X	X	X	X			
	SB-2 (1-2)	5/4/2009	Solid	Grab			X	X	X	X	X			
	SB -5 (0-2)	5/6/2009	Solid	Grab			X	X	X	X	X			
	SB-5	5/4/2009	Solid	Composite			X	X	X	X	X			
	SB-6 (1-4)	5/4/2009	Solid	Composite			X	X	X	X	X			
	SB-7 (1-3)	5/4/2009	Solid	Grab			X	X	X	X	X			
	SB-8 (0-4)	5/4/2009	Solid	Composite			X	X	X	X	X			
	SB-8D (5-9)	5/4/2009	Solid	Composite			X	X	X	X	X			
	SB-9 (1-4)	5/4/2009	Solid	Composite			X	X	X	X	X			
	SB-12 (1-3)	5/4/2009	Solid	Grab			X	X	X	X	X			
	SB-13 (1-5)	5/4/2009	Solid	Composite			X	X	X	X	X			
	SB-14 (1-4)	5/4/2009	Solid	Composite			X	X	X	X	X			
	SB-15 (1-4)	5/4/2009	Solid	Composite			X	X	X	X	X			
	SB-16 (1-4)	5/5/2009	Solid	Composite			X	X	X	X	X			
	SB-17 (1-4)	5/5/2009	Solid	Composite			X	X	X	X	X			
	SB-17 (4-5)	5/5/2009	Solid	Composite			X	X	X	X	X			
	SB-18 (1-4)	5/5/2009	Solid	Composite			X	X	X	X	X			
	SB-22 (4-6) SB-21	5/5/2009	Solid	Grab			X	X	X	X	X			
	B-1 (0-2)	5/6/2009	Solid	Grab			X	X	X	X	X			
	B-1 (4-6)	5/7/2009	Solid	Grab			X	X	X	X	X			
	B-2 (0-2)	5/6/2009	Solid	Grab			X	X	X	X	X			
	B-2 (4-7)	5/5/2009	Solid	Composite			X	X	X	X	X			
	B-7 (1-4)	5/6/2009	Solid	Composite			X	X	X	X	X			
	B-13 (0-4)	5/5/2009	Solid	Composite			X	X	X	X	X			
	B-15 (0-4)	5/6/2009	Solid	Composite			X	X	X	X	X			
	Monitoring Well Soil Samples Tables 5A-5E	MW-005 (8-10)	5/8/2009	Solid			Grab	4	4	X	X	X	X	X
		MW-006 (2-4)	5/8/2009	Solid			Grab			X	X	X	X	X
		MW-007 (5-9)	5/11/2009	Solid			Grab			X	X	X	X	X
MW-8 (14-16)		5/13/2009	Solid	Grab	X	X	X			X	X			



OP-TECH							28-Aug-09				
TABLE 1: RIVERVIEW INDUSTRIAL CENTER SAMPLE SCHEDULE (Continued)											
Media	Identifier	Date	Matrix	Type	# of Locations	# Samples	Analysis Required				
							VOCs	SVOCs	PEST	PCBs	Metals
Test Pits  Tables 5A-5E	TP-3	5/11/2009	Solid	Grab	21	9	X	X	X	X	X
	TP-4	5/11/2009	Solid	Grab			X	X	X	X	X
	WS4P	5/14/2009	Water	Grab			X	X	X	X	X
	TP-6	5/11/2009	Solid	Grab			X	X	X	X	X
	TP-6B	5/11/2009	Solid	Grab			X	X	X	X	X
	TP-10	5/12/2009	Solid	Grab			X	X	X	X	X
	TP-13	5/12/2009	Solid	Grab			X	X	X	X	X
	TP-19	5/14/2009	Solid	Grab			X	X	X	X	X
	TP-21	5/14/2009	Solid	Grab			X	X	X	X	X
Groundwater Samples  Tables 6A-6E	MW-1	6/13/2009	Water	Grab	8	8	X	X	X	X	X
	MW-2R	6/13/2009	Water	Grab			X	X	X	X	X
	MW-3	6/13/2009	Water	Grab			X	X	X	X	X
	MW-4	6/13/2009	Water	Grab			X	X	X	X	X
	MW-005	6/13/2009	Water	Grab			X	X	X	X	X
	MW-006	6/13/2009	Water	Grab			X	X	X	X	X
	MW-007	6/12/2009	Water	Grab			X	X	X	X	X
	MW-008	6/12/2009	Water	Grab			X	X	X	X	X
	Dup-13	6/13/2009	Water	Grab			X	X	X	X	X
Oil/Water Separator Table 8A-8E	OWS-1	5/18 & 5/21	Water	Grab	1	1	X	X	X	X	X
Site Sewer Tables 8A-8E	MH-1	5/15 & 5/21	Water	Grab	2	2	X	X	X	X	X
	MH-2	5/19/2009	Water	Grab			X	X	X	X	X
USTs  Tables 7A-7F	T-1 NAPL	5/19/2009	Waste	Grab	5	6	X	X	X	X	X
	T-2 NAPL	5/19/2009	Waste	Grab			X	X	X	X	X
	T-3 NAPL	5/19/2009	Waste	Grab			X	X	X	X	X
	T-4 NAPL	5/19/2009	Waste	Grab			X	X	X	X	X
	T-4 NAPL	5/18/2009	Water	Grab			X	X	X	X	X
	T-5 NAPL	5/19/2009	Waste	Grab			X	X	X	X	X
Mechanics Pit Tables 8A-8E	Mechanics Pit	5/18/2009	Water	Grab	1	1	X	X	X	X	X
Sediment Samples  Tables 9A-9E	SED-2	5/13/2009	Solid	Grab	5	5	X	X	X	X	X
	SED-3-OF	5/18/2009	Solid	Grab			X	X	X	X	X
	SED-4	5/18/2009	Solid	Grab			X	X	X	X	X
	SED-5	5/18/2009	Solid	Grab			X	X	X	X	X
	SED-6	5/18/2009	Solid	Grab			X	X	X	X	X
Catch Basin Tables 9A-9E	SS-1 (Catch Basin)	5/13/2009	Solid	Grab	1	1	X	X	X	X	X
Tank 10 Lagoon	Tank 10 Sed	8/29/2009	Solid	Grab	1	1	X	X	X	X	X
Total # Samples						89					

**Table 2: Monitoring Well Information  
Riverview Industrial Center**

Well #	Ground Elevation	Top of PVC Elevation	Stick Up	Depth to Groundwater	Elevation Groundwater from PVC	Well Depth	Top Well Screen	Bottom Well Screen	Groundwater Elevation from Grade
MW-001	587.08	591.36	4.28	11.21	580.15	21.2	--	--	<b>575.87</b>
MW-2R	596.58	596.93	0.35	5.12	591.81	32**	583.81	32	<b>591.46</b>
MW-003	NC	NC	--	NC	NC	17.2***	--	--	--
MW-004	585.54	588.44	2.9	6.23	582.21	22.5	--	--	--
MW-005	566.17	569.97	3.8	10.12	559.85	32.55	551.85	30	<b>556.05</b>
MW-006	596.19	599.29	3.1	29.04	570.25	33	562.25	30	<b>567.15</b>
MW-007	580.18	583.48	3.3	25.02	558.46	32.43	550.46	30	<b>555.16</b>
MW-008	599.64	602.24	2.6	6.75	595.49	32.5	587.49	30	<b>592.89</b>
MW-009	599.38	602.28	2.9	6.83	595.45	22.5	--	--	<b>592.55</b>

**Notes:**

\*= Depth from top of casing, predevelopment

\*\*=Reinstalled depth, Flush to grade roadbox.

\*\*\*=Obstructed well.

\*\*\*\*= pressure noted on the well cap at time of gaugung/sampling.

WL= Water Level

NC= Not Collected

All wells purged via Vacuum truck except as noted below.

MW-3 well bocked at 17.2 feet.

MW-8 -0.25 gallons purged.

MW-9-28 gallons purged.

**Table 2a: Monitoring Well Development Information  
Riverview Industrial Center**

Well #	Development/Surging				Depth to Groundwater	3 Well Volumes Volumes	Gallons Removed
	Vacuumed	Flushed	Surged	Repeated			
MW-1	Yes	Yes	Yes	4 times	11.69	20.6 Gallons	20.7
	~ 40 gals	25 gallons		100 gallons			
MW-2	Damaged	NA	NA	NA	Damaged - Not Sampled		
MW - 2R	NA	NA	Attempted 10		1.62'	13.78 Gallons	13.8
			well volumes				
MW-3	Yes	Yes	Yes	4 times	Damaged - Not Sampled		
	~ 40 gals	25 gallons		100 gallons			
MW-4	Yes	Yes	Yes	4 times	6.9'	9.73 Gallons	25
	~ 40 gals	25 gallons		100 gallons			
MW-005	NA	NA	Attempted 10		7.0'	12.5 Gallons	14.7
			well volumes				
MW-006	NA	NA	Attempted 10		25.3'	3.69 Gallons	3.75
			well volumes				
MW-007	NA	NA	Attempted 10		23.72	4.26	Not Available
			well volumes				
MW-008	NA	NA	Attempted 10		32.1	0.19	0.25
			well volumes				
MW-9					5.9'	8.1 Gallons	6.5 (Dry)

# DATA QUALIFIERS AND DEFINITIONS

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## **Blank areas indicate a non-detect**

B	Analyte was detected in the associated Method Blank
B1	Analyte was detected in the associated method blank. Analyte concentration in the sample is greater than 10x the concentration found in the method blank.
C-01	To reduce matrix interference, the sample extract has undergone sulfuric acid clean-up, method 3665A, which is specific to hydrocarbon contamination.
C-04	To reduce matrix interference, the sample extract has undergone florisil clean-up, method 3620B., which is specific to non-polar compound contamination.
CF6	Results confirmed by reanalyses.
D02	Dilution required due to sample matrix effects.
D03	Dilution required due to excessive foaming.
D04	Dilution required due to high levels of non-target compounds.
D08	Dilution required due to high concentration of target analyte(s)
D10	Dilution required due to sample color.
E	Concentration exceeds the calibration range and therefore is semi-quantative.
H4	Sample was extracted past holding time, but analyzed within analysis holding time.
J	Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
L	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits. Analyte not detected, data not impacted.
L1	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
L2	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits.
L4	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below the acceptance limits. A low bias to sample results is indicated.
L5	Analyte recovery outside of specified criteria. Individual analyte criteria exceedences allowed for multi-component analyses without disqualification of data per NELAC Standard, DOD QSM and/or AFCEE QAPP.
M1	The MS and/or MSD were outside the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M11	The MS and/or MSD were above the acceptance limits.
M12	The MS and/or MSD were below the acceptance limits. See calibration verification. (CCV)
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS)
M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
MHA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
N1	See case narrative.
P11	Sample was not sufficiently preserved at time of collection. Sample pH is >2
QFL	Florisil clean-up (EPA 3620) performed on extract.
QSU	Sulfur (EPA 3660) clean-up performed on extract.
R2	The RPD exceeded the acceptance limit.
R10	The RPD between the primary and confirmatory analysis exceeded 40%. Per method 8000B, the lower value was reported due to apparent chromatographic problems.
S6	Sediment present.
T10	Sample had an adjusted final volume during extraction due to extract matrix and/or viscosity.
Z1	Surrogate recovery was above acceptance limits.
Z2	Surrogate recovery was above the acceptance limits. Data not impacted.

- Z3 The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
- Z5 Due to sample matrix effects, the surrogate recovery was outside acceptance limits. Secondary surrogate recovery was within the acceptance limits.
- Z6 Surrogate recover was below acceptance limits.
- ZX Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
- NR Any inclusion of NR indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.

Table 3A: Surface Soil Samples  
Volatile Organic Compounds  
Riverview Industrial Center  
5335 River Road  
Tonawanda, NY 14150

Soil Sample ID	Part 375 Unrestricted Use	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	SS-10	SS-11	SS-12
Date		05/15/09	5/15/2009	5/15/2009	5/15/2009	5/15/09	5/15/09	5/15/09	5/15/09	5/15/09	5/15/2009	5/15/2009	5/15/2009
Matrix		Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Acetone	50	< 30	< 26	< 31	< 32	< 33	< 40	< 30	< 30	< 27	< 33	50	< 27
Cyclohexane	NL	3.2 J	< 5.1	< 6.2	< 6.4	< 6.7	< 8.1	< 6.0	< 6.0	< 5.4	< 6.6	<6.5	< 5.5
Ethylbenzene	1000	3.6 J	< 5.1	< 6.2	< 6.4	< 6.7	< 8.1	< 6.0	< 6.0	< 5.4	< 6.6	< 6.5	< 5.5
Methylene Chloride	50	3.2 J	< 5.1	< 6.2	< 6.4	1.6 J	< 8.1	< 6.0	< 6.0	< 5.4	< 6.6	7.8	< 5.5
Methylcyclohexane	NL	24	< 5.1	< 6.2	< 6.4	< 6.7	< 8.1	< 6.0	< 6.0	< 5.4	< 6.6	< 6.5	< 5.5
Toluene	700	3.1 J	< 5.1	< 6.2	< 6.4	< 6.7	< 8.1	< 6.0	< 6.0	< 5.4	< 6.6	< 6.5	< 5.5
Xylenes, Total	260	30	< 10	< 12	< 13	< 13	< 16	< 12	< 12	< 11	< 13	< 13	< 11

NOTES:  
All sample analysis performed by Test America (Amherst, New York) in May 2009.  
Analytes only detected in surficial soil samples are listed.  
All units are micrograms per kilogram (ug/kg)  
NL - Analyte not listed in 6 NYCRR Part 375 Environmental Remediation Programs Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives.  
J -Analyte

**Table 3A: Surface Soil Samples**  
**Volatile Organic Compounds**  
**Riverview Industrial Center**  
**5335 River Rd.**  
**Tonawanda, NY 14150**

Soil Sample ID	Part 375 Unrestricted Use	SS-13	SS-14	SS-15	SS-16	SS-17	SS-18	SS-19	SS-20	SS-21	SS-22
Date		5/15/2009	5/15/2009	5/15/2009	5/15/2009	5/15/2009	5/15/2009	5/15/2009	5/15/2009	5/15/2009	5/15/2009
Matrix		Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid
<i>Acetone</i>	50	< 31	< 31	< 34	< 35	< 34	< 39	< 36	< 38	< 37	< 35
<i>Cyclohexane</i>	NL	< 6.2	< 6.1	< 6.8	< 6.9	< 6.8	< 7.8	< 7.2	< 7.7	< 7.4	< 7.1
<i>Ethylbenzene</i>	1000	<6.2	< 6.1	< 6.8	< 6.9	< 6.8	< 7.8	< 7.2	< 7.7	< 7.4	< 7.1
<i>Methylene Chloride</i>	50	<6.2	< 6.1	< 6.8	< 6.9	< 6.8	< 7.8	< 7.2	< 7.7	< 7.4	< 7.1
<i>Methylcyclohexane</i>	NL	<6.2	< 6.1	< 6.8	< 6.9	< 6.8	< 7.8	< 7.2	< 7.7	< 7.4	< 7.1
<i>Toluene</i>	700	<6.2	< 6.1	< 6.8	< 6.9	< 6.8	< 7.8	< 7.2	< 7.7	< 7.4	< 7.1
<i>Xylenes, Total</i>	260	< 12	< 12	< 14	< 14	< 14	< 16	< 14	< 15	< 15	< 14

NOTES:  
All sample analysis performed by Test America (Amherst, New York) in May 2009.  
Analytes only detected in surficial soil samples are listed.  
All units are **micrograms per kilogram (ug/kg)**  
NL - Analyte not listed in 6 NYCRR Part 375 Environmental Remediation Programs Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives.  
J -Analyte

Table 3B: Surface Soil Samples  
Semi-Volatile Organic Compounds  
Riverview Industrial Center  
5335 River Road  
Tonawanda, NY

Soil Sample ID	Part 375 Unrestricted Use	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	SS-10	SS-11	SS-12
Date		05/15/09	5/15/2009	5/15/2009	5/15/2009	5/15/09	5/15/09	5/15/09	5/15/09	5/15/09	5/15/2009	5/15/2009	5/15/2009
Matrix		Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid
2-Methylnaphthalene	NL	17000	< 910	< 2100	< 2300	< 230	< 1400	< 210	< 1000	< 190	< 2300	< 230	< 190
4-Methylphenol	NL	< 2000	< 1800	< 4100	< 4400	< 450	< 2700	< 400	< 2000	< 370	< 4400	450	<370
Acenaphthene	20000	< 1000	< 910	370D,J	300D,J	< 230	< 1400	< 210	< 1000	< 190	130D,J	< 230	< 190
Acetophenone	NL	< 1000	< 910	< 2100	< 2300	< 230	< 1400	< 210	< 1000	< 190	< 2300	< 230	< 190
Anthracene	100000	< 1000	< 910	1100D,J	450D,J	< 230	< 1400	< 210	< 1000	< 190	420D,J	< 230	< 190
Benzaldehyde	NL	< 1000	< 910	< 2100	< 2300	< 230	< 1400	< 210	< 1000	< 190	< 2300	< 230	< 190
Benzo(a)anthracene	1000	< 1000	39D,J	6400D	1500D,J	< 230	60D,J	< 210	71D,J	11J	2300D	< 230	11J
Benzo(a)pyrene	1000	< 1000	< 910	6600D	1200D,J	< 230	< 1400	< 210	81D,J	< 190	2400D	< 230	< 190
Benzo(b)fluoranthene	1000	< 1000	< 910	7900D	1600D,J	< 230	< 1400	11J	100D,J	< 190	2800D	< 230	9.7J
Benzo(g,h,i)perylene	100000	< 1000	< 910	5200D	880D,J	< 230	< 1400	< 210	83D,J	< 190	1900D,J	< 230	< 190
Benzo(k)fluoranthene	800	< 1000	< 910	3400D	710D,J	< 230	< 1400	< 210	51D,J	< 190	1300D,J	< 230	< 190
Biphnyl	NL	< 1000	< 910	< 2100	< 2300	< 230	< 1400	< 210	< 1000	< 190	< 2300	< 230	< 190
Bis-(2 chloroethoxy) methane	NL	< 1000	< 910	< 2100	< 2300	< 230	< 1400	< 210	< 1000	< 190	< 2300	< 230	< 190
Bis-(2-ethylhexyl) phthalate	NL	< 1000	< 910	< 2100	< 2300	< 230	< 1400	< 210	< 1000	< 190	< 2300	< 230	< 190
Carbazole	NL	< 1000	< 910	510D,J	360D,J	< 230	< 1400	< 210	< 1000	< 190	170D,J	< 230	< 190
Chrysene	1000	< 1000	< 910	6300D	1400D,J	< 230	< 1400	< 210	87D,J	< 190	2400D	< 230	< 190
Dibenzo(a,h)anthracene	330	< 1000	< 910	1300D,J	260D,J	< 230	< 1400	< 210	< 1000	< 190	460D,J	< 230	< 190
Dibenzofuran	NL	< 1000	< 910	110D,J	190D,J	< 230	< 1400	< 210	< 1000	< 190	< 2300	< 230	< 190
Diethyl phthalate	NL	< 1000	< 910	< 2100	< 2300	< 230	< 1400	< 210	< 1000	< 190	< 2300	< 230	< 190
Di-n-butyl-phthalate	NL	< 1000	< 910	< 2100	< 2300	< 230	< 1400	< 210	< 1000	< 190	< 2300	< 230	< 190
Di-n-octyl-phthalate	NL	< 1000	< 910	< 2100	< 2300	< 230	< 1400	< 210	< 1000	< 190	< 2300	< 230	< 190
Fluoranthene	100000	480J	< 910	13000D	3300D	< 230	< 1400	13J	110D,J	< 190	4600D	< 230	< 190
Fluorene	30000	6000	< 910	280D	180D,J	< 230	< 1400	< 210	< 1000	< 190	140D,J	< 230	< 190
Indeno(1,2,3-cd)pyrene	500	< 1000	< 910	4400D	750D,J	< 230	< 1400	< 210	75D,J	< 190	1600D,J	< 230	< 190
Naphthalene	12000	< 1000	< 910	< 2100	190D,J	< 230	< 1400	< 210	< 1000	< 190	< 2300	< 230	< 190
N-nitrosdiphenylamine	NL	< 1000	< 910	< 2100	< 2300	< 230	< 1400	< 210	< 1000	< 190	< 2300	< 230	< 190
Phenanthrene	100000	7800	< 910	4900D	2800D	< 230	< 1400	11J	73D,J	< 190	1900D,J	< 230	< 190
Pyrene	100000	1300	< 910	11000D	2600D	< 230	< 1400	< 210	110D,J	7.9J	3800D	< 230	10J

All sample analysis performed by Test America (Amherst, New York) in May 2009.  
All units are micrograms per kilogram (µg/kg)  
NL - Analyte not listed in 6 NYCRR Part 375 Environmental Remediation Programs Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives.  
J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).  
Concentrations within this range are estimated.  
D02 -Dilution required due to sample matrix effects.



Table 3B: Surface Soil Samples  
Semi-Volatile Organic Compounds  
Riverview Industrial Center  
5335 River Road  
Tonawanda, NY

Soil Sample ID	Part 375 Unrestricted Use	SS-13	SS-14	SS-15	SS-16	SS-17	SS-18	SS-19	SS-20	SS-21	SS-22
Date		5/15/2009	5/15/2009	5/15/2009	5/15/2009	5/15/2009	5/15/2009	5/15/2009	5/15/2009	5/15/2009	5/15/2009
Matrix		Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid
2-Methylnaphthalene	NL	12J	< 1100	< 240	< 240	< 1200	< 1400	< 1300	< 1300	< 1300	< 250
4-Methylphenol	NL	< 430	< 2100	< 460	< 470	< 2300	< 2700	< 2500	< 2500	< 2500	< 480
Acenaphthene	20000	< 220	< 1100	< 240	< 240	< 1200	< 1400	< 1300	< 1300	< 1300	< 250
Acetophenone	NL	< 220	< 1100	< 240	< 240	< 1200	< 1400	< 1300	< 1300	< 1300	< 250
Anthracene	100000	< 220	83D,J	< 240	< 240	< 1200	< 1400	< 1300	< 1300	< 1300	< 250
Benzaldehyde	NL	< 220	< 1100	< 240	< 240	< 1200	< 1400	< 1300	< 1300	< 1300	< 250
Benzo(a)anthracene	1000	25J	83D,J	< 240	20J	82D,J	130D,J	270D,J	110D,J	64D,J	33J
Benzo(a)pyrene	1000	28J	89D,J	< 240	22J	100D,J	150D,J	350D,J	120D,J	< 1300	33J
Benzo(b)fluoranthene	1000	37J	140D,J	< 240	25J	140D,J	190D,J	430D,J	120D,J	< 1300	42J
Benzo(g,h,i)perylene	100000	40J	100D,J	< 240	22J	99D,J	160D,J	370D,J	120D,J	< 1300	22J
Benzo(k)fluoranthene	800	11J	< 1100	< 240	9.5J	< 1200	87D,J	110D,J	58D,J	< 1300	< 250
Biphnyl	NL	< 220	< 1100	< 240	< 240	< 1200	< 1400	< 1300	< 1300	< 1300	< 250
Bis-(2 chloroethoxy) methane	NL	< 220	< 1100	< 240	< 240	< 1200	< 1400	< 1300	< 1300	< 1300	< 250
Bis-(2-ethylhexyl) phthalate	NL	< 220	< 1100	< 240	< 240	< 1200	< 1400	< 1300	< 1300	< 1300	< 250
Carbazole	NL	< 220	< 1100	< 240	< 240	< 1200	< 1400	< 1300	< 1300	< 1300	< 250
Chrysene	1000	24J	160D,J	< 240	16J	85D,J	140D,J	250D,J	86D,J	66D,J	34J
Dibenzo(a,h)anthracene	330	12J	< 1100	< 240	< 240	< 1200	< 1400	76D,J	< 1300	< 1300	< 250
Dibenzofuran	NL	< 220	< 1100	< 240	< 240	< 1200	< 1400	< 1300	< 1300	< 1300	< 250
Diethyl phthalate	NL	< 220	< 1100	< 240	< 240	< 1200	< 1400	< 1300	< 1300	< 1300	< 250
Di-n-butyl-phthalate	NL	< 220	< 1100	< 240	< 240	< 1200	< 1400	< 1300	< 1300	< 1300	< 250
Di-n-octyl-phthalate	NL	< 220	< 1100	< 240	< 240	< 1200	< 1400	< 1300	< 1300	< 1300	< 250
Fluoranthene	100000	40J	110D,J	< 240	28J	130D,J	190D,J	380D,J	120D,J	< 1300	53J
Fluorene	30000	< 220	< 1100	< 240	< 240	< 1200	< 1400	< 1300	< 1300	< 1300	< 250
Indeno(1,2,3-cd)pyrene	500	23J	< 1100	< 240	17J	78D,J	140D,J	260D,J	81D,J	< 1300	< 250
Naphthalene	12000	< 220	< 1100	< 240	< 240	< 1200	< 1400	< 1300	< 1300	< 1300	< 250
N-nitrosdiphenylamine	NL	< 220	< 1100	< 240	< 240	< 1200	< 1400	< 1300	< 1300	< 1300	< 250
Phenanthrene	100000	< 220	64D,J	< 240	20J	73D,J	110D,J	200D,J	75D,J	< 1300	32J
Pyrene	100000	33J	110D,J	< 240	23J	100D,J	170D,J	370D,J	130D,J	< 1300	41J

All sample analysis performed by Test America (Amherst, New York) in May 2009.  
All units are micrograms per kilogram (µg/kg)  
NL - Analyte not listed in 6 NYCRR Part 375 Environmental Remediation Programs Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives.  
J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).  
Concentrations within this range are estimated.  
D02 -Dilution required due to sample matrix effects.

Table 3C: Surface Soil Samples  
Pesticides  
Riverview Industrial Center  
5335 River Road  
Tonawanda, NY

Soil Sample ID	Part 375 Unrestricted Use	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	SS-10	SS-11	SS-12
Date		05/15/09	5/15/09	5/15/09	5/15/09	5/15/09	5/15/09	5/15/09	5/15/09	5/15/09	5/15/09	05/15/09	5/15/09
Matrix		Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid
4,4'-DDT	3.3	< 200	< 1.8	< 21	< 2.1	< 2.3	< 2.7	< 2.0	< 2.0	< 1.9	< 23	< 2.2	< 19
4-4'-DDD	3.3	< 200	1.8	< 21	< 2.1	< 2.3	< 2.7	< 2.0	< 2.0	< 1.9	< 23	< 2.2	< 19
4-4'-DDE	3.3	< 200	< 1.8	< 21	0.89J	< 2.3	< 2.7	< 2.0	< 2.0	< 1.9	< 23	< 2.2	< 19
Aldrin	5	< 200	< 1.8	< 21	< 2.1	< 2.3	< 2.7	< 2.0	< 2.0	< 1.9	< 23	< 2.2	< 19
alpha-BHC	20	< 200	< 1.8	< 21	< 2.1	< 2.3	< 2.7	< 2.0	< 2.0	< 1.9	< 23	< 2.2	< 19
alpha-Chlordane	94	< 200	< 1.8	< 21	1.4J	< 2.3	< 2.7	< 2.0	< 2.0	< 1.9	< 23	< 2.2	< 19
beta-BHC	36	< 200	< 1.8	< 21	< 2.1	< 2.3	< 2.7	< 2.0	< 2.0	< 1.9	< 23	1.2J	< 19
Chlordane	NL	< 200	< 1.8	< 21	< 2.1	< 2.3	< 2.7	< 2.0	< 2.0	< 1.9	< 23	< 22	< 19
delta-BHC	40	< 200	< 1.8	< 21	< 2.1	< 2.3	< 2.7	< 2.0	1.1J	< 1.9	< 23	< 2.2	< 19
Dieldrin	5	< 200	0.67J	< 21	< 2.1	< 2.3	0.93J	0.67J	< 2.0	< 1.9	7.7D,QFL,J	< 2.2	< 19
Endosulfan I	2400	< 200	< 1.8	< 21	< 2.1	< 2.3	< 2.7	< 2.0	< 2.0	< 1.9	< 23	< 2.2	< 19
Endosulfan II	2400	66D,QFL,J	< 1.8	< 21	< 2.1	< 2.3	< 2.7	< 2.0	< 2.0	< 1.9	< 23	< 2.2	< 19
Endosulfan Sulfate	2400	< 200	< 1.8	< 21	< 2.1	< 2.3	< 2.7	< 2.0	< 2.0	< 1.9	< 23	< 2.2	< 19
Endrin	14	120D,QFL,J	< 1.8	< 21	< 2.1	< 2.3	< 2.7	< 2.0	< 2.0	< 1.9	< 23	< 2.2	< 19
Endrin aldehyde	NL	< 200	< 1.8	< 21	< 2.1	< 2.3	< 2.7	< 2.0	< 2.0	< 1.9	< 23	< 2.2	< 19
Endrin Ketone	NL	< 200	< 1.8	< 21	< 2.1	< 2.3	< 2.7	< 2.0	< 2.0	< 1.9	< 23	< 2.2	< 19
gamma BHC (Lindane)	100	< 200	< 1.8	< 21	< 2.1	< 2.3	< 2.7	< 2.0	< 2.0	< 1.9	< 23	< 2.2	< 19
gamma- Chlorodane	NL	44D,QFL,J	< 1.8	< 21	1.2J	< 2.3	< 2.7	< 2.0	< 2.0	< 1.9	< 23	0.94J	< 19
Heptachlor	42	< 200	< 1.8	< 21	< 2.1	< 2.3	< 2.7	< 2.0	< 2.0	< 1.9	< 23	< 2.2	< 19
Heptachlor epoxide	NL	< 200	< 1.8	< 21	< 2.1	< 2.3	< 2.7	< 2.0	< 2.0	< 1.9	< 23	< 2.2	< 19
Methoxychlor	NL	< 200	< 1.8	< 21	< 2.1	< 2.3	< 2.7	< 2.0	< 2.0	< 1.9	< 23	< 2.2	< 19
Toxaphene	NL	< 200	< 1.8	< 21	< 2.1	< 2.3	< 2.7	< 2.0	< 2.0	< 1.9	< 23	< 2.2	< 19

NOTES:

All sample analysis performed by Test America (Amherst, New York) in May 2009.

All units are micrograms per kilogram (µg/kg)

NL - Analyte not listed in 6 NYCRR Part 375 Environmental Remediation Programs Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives.

B - Analyte was detected in the associated Method Blank

J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).

Concentrations within this range are estimated.

D10 - Dilution required due to sample color.

QFL - Florisil clean-up (EPA 3620) performed on extract.

QSU - Sulfur (EPA 3660) clean-up performed on extract.

**Table 3C: Surface Soil Samples**  
**Pesticides**  
**Riverview Industrial Center**  
**5335 River Road**  
**Tonawanda, NY**

Soil Sample ID	Part 375 Unrestricted Use	SS-13	SS-14	SS-15	SS-16	SS-17	SS-18	SS-19	SS-20	SS-21	SS-22
Date		5/15/09	05/15/09	05/15/09	05/15/09	05/15/09	05/15/09	5/15/09	5/15/09	5/15/09	5/15/09
Matrix		Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid
4,4'-DDT	3.3	< 22	< 21	< 23	< 24	< 24	< 27	< 25	< 25	< 25	< 24
4-4'-DDD	3.3	< 22	< 21	< 23	< 24	< 24	< 27	< 25	< 25	< 25	< 24
4-4'-DDE	3.3	< 22	< 21	< 23	< 24	< 24	< 27	< 25	< 25	< 25	< 24
Aldrin	5	< 22	< 21	< 23	< 24	< 24	< 27	< 25	< 25	< 25	< 24
alpha-BHC	20	< 22	< 21	< 23	< 24	< 24	< 27	< 25	< 25	< 25	< 24
alpha-Chlordane	94	< 22	< 21	< 23	< 24	< 24	< 27	< 25	< 25	< 25	< 24
beta-BHC	36	< 22	< 21	< 23	< 24	< 24	< 27	< 25	< 25	< 25	< 24
Chlordane	NL	< 22	< 21	< 23	< 24	< 24	< 27	< 25	< 25	< 25	< 24
delta-BHC	40	< 22	< 21	< 23	< 24	< 24	< 27	< 25	< 25	< 25	< 24
Dieldrin	5	< 22	< 21	< 23	< 24	< 24	< 27	< 25	< 25	< 25	< 24
Endosulfan I	2400	< 22	< 21	< 23	< 24	< 24	< 27	< 25	< 25	< 25	< 24
Endosulfan II	2400	< 22	< 21	< 23	< 24	< 24	< 27	< 25	< 25	< 25	< 24
Endosulfan Sulfate	2400	< 22	< 21	< 23	< 24	< 24	< 27	< 25	< 25	< 25	< 24
Endrin	14	< 22	< 21	< 23	< 24	< 24	< 27	< 25	< 25	< 25	< 24
Endrin aldehyde	NL	< 22	< 21	< 23	< 24	< 24	< 27	< 25	< 25	< 25	< 24
Endrin Ketone	NL	< 22	< 21	< 23	< 24	< 24	< 27	< 25	< 25	< 25	< 24
gamma BHC (Lindane)	100	< 22	< 21	< 23	< 24	< 24	< 27	< 25	< 25	< 25	< 24
gamma- Chlorodane	NL	< 22	< 21	< 23	< 24	< 24	< 27	5.3D,J	12QFL,J	< 25	< 24
Heptachlor	42	< 22	< 21	< 23	< 24	< 24	< 27	< 25	< 25	< 25	< 24
Heptachlor epoxide	NL	< 22	< 21	< 23	< 24	< 24	< 27	< 25	< 25	< 25	< 24
Methoxychlor	NL	< 22	< 21	< 23	< 24	< 24	< 27	< 25	< 25	< 25	< 24
Toxaphene	NL	< 22	< 21	< 23	< 24	< 24	< 27	< 25	< 25	< 25	< 24

NOTES:  
All sample analysis performed by Test America (Amherst, New York) in May 2009.  
All units are micrograms per kilogram (µg/kg)  
NL - Analyte not listed in 6 NYCRR Part 375 Environmental Remediation Programs Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives.  
B - Analyte was detected in the associated Method Blank  
J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).  
Concentrations within this range are estimated.  
D10 - Dilution required due to sample color.  
QFL - Florisil clean-up (EPA 3620) performed on extract.  
QSU - Sulfur (EPA 3660) clean-up performed on extract.



Table 3D: Surface Soil Samples  
Polychlorinated Biphenyls  
Riverview Industrial Center  
5335 River Road  
Tonawanda, Ny

Soil Sample ID	Part 375 Unrestricted Use	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	SS-10	SS-11
Date		05/15/09	5/15/09	5/15/09	5/15/09	5/15/09	5/15/09	5/15/09	5/15/09	5/15/09	5/15/09	5/15/09
Matrix		Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Aroclor-1016	100	< 20	< 18	< 21	< 21	< 23	< 27	< 20	< 20	< 19	< 23	< 22
Aroclor-1221	100	< 20	< 18	< 21	< 21	< 23	< 27	< 20	< 20	< 19	< 23	< 22
Aroclor-1232	100	< 20	< 18	< 21	< 21	< 23	< 27	< 20	< 20	< 19	< 23	< 22
Aroclor-1242	100	< 20	< 18	< 21	< 21	< 23	< 27	< 20	< 20	< 19	< 23	< 22
Aroclor-1248	100	< 20	< 18	< 21	< 21	< 23	< 27	< 20	< 20	< 19	< 23	< 22
Aroclor-1254	100	< 20	< 18	< 21	< 21	< 23	< 27	< 20	< 20	< 19	< 23	< 22
Aroclor-1260	100	< 20	100	< 21	< 21	< 23	< 27	< 20	< 20	< 19	35	< 22

NOTES:  
All sample analysis performed by Test America (Amherst, New York) in May 2009.  
All units are micrograms per kilogram (µg/kg)



Table 3D: Surface Soil Samples  
Polychlorinated Biphenyls  
Riverview Industrial Center  
5335 River Road  
Tonawanda, Ny

Soil Sample ID	Part 375 Unrestricted Use	SS-12	SS-13	SS-14	SS-15	SS-16	SS-17	SS-18	SS-19	SS-20	SS-21	SS-22
Date		5/15/09	5/15/09	05/15/09	05/15/09	05/15/09	05/15/09	05/15/09	5/15/09	5/15/09	5/15/09	5/15/09
Matrix		Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Aroclor-1016	100	< 19	< 22	< 21	< 23	< 24	< 24	< 27	< 25	< 25	< 25	< 24
Aroclor-1221	100	< 19	< 22	< 21	< 23	< 24	< 24	< 27	< 25	< 25	< 25	< 24
Aroclor-1232	100	< 19	< 22	< 21	< 23	< 24	< 24	< 27	< 25	< 25	< 25	< 24
Aroclor-1242	100	< 19	< 22	< 21	< 23	< 24	< 24	< 27	< 25	< 25	< 25	< 24
Aroclor-1248	100	< 19	< 22	< 21	< 23	< 24	< 24	< 27	< 25	< 25	< 25	< 24
Aroclor-1254	100	< 19	< 22	< 21	< 23	< 24	< 24	< 27	< 25	< 25	< 25	< 24
Aroclor-1260	100	< 19	< 22	< 21	< 23	< 24	< 24	< 27	< 25	< 25	< 25	< 24

NOTES:  
All sample analysis performed by Test America (Amherst, New York) in May 2009.  
All units are micrograms per kilogram (µg/kg)

**Table 3E: Surface Soil Samples  
Metals  
Riverview Industrial Center  
5335 River Road  
Tonawanda, NY**

Soil Sample ID	Part 375	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	SS-10	SS-11	SS-12
Date	Unrestrict ed Use	05/15/09	5/15/09	5/15/09	5/15/09	5/15/09	5/15/09	5/15/09	5/15/09	5/15/09	5/15/09	5/15/09	5/15/09
Matrix		Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid
<i>Aluminum (mg/kg)</i>	NL	8890	10000	5340	13700	8400	17100	10000	11100	16300	11100	12700	7920
<i>Antimony (mg/kg)</i>	NL	< 17.7	< 15.3	0.7J	< 20.4	< 20.3	< 23.7	< 19.0	< 19.7	< 19.2	< 19.7	< 21.1	< 17.5
<i>Arsenic (mg/kg)</i>	13	2.6	4.0	3.7	4.9	4.6	6.4	2.9	3.3	4.1	3.8	4.1	2.1J
<i>Barium (mg/kg)</i>	350	70.6	83.9	46.3	111	221	130	83.4	87.0	123	97.4	96.2	61.3
<i>Beryllium (mg/kg)</i>	7.2	0.451	0.520	0.952	1.01	0.671	0.859	0.542	0.553	0.767	0.997	0.633	0.402
<i>Cadmium (mg/kg)</i>	2.5	0.201J	0.211	0.646	0.461	0.182J	0.106J	< 0.253	0.071J	< 0.256	1.24	0.191J	0.056J
<i>Calcium (mg/kg)</i>	NL	33100	17700	241000D	50800	44400	33300	8700	39000	4170	122000D	34000	26800
<i>Chromium (mg/kg)</i>	NL	11.9	14.3	10.5	19.8	17.6	23.5	13.4	17.3	21.0	15.1	17.4	11.3
<i>Cobalt (mg/kg)</i>	NL	8.72	8.31	3.24	9.98	10.8	12.3	7.57	9.18	12.5	5.91	10.3	6.57
<i>Copper (mg/kg)</i>	50	120	16.2	14.8	29.0	22.7	24.3	14.9	24.9	20.1	16.9	18.6	13.4
<i>Iron (mg/kg)</i>	NL	13200	16500	8720	21700	32700	28400	16000	19300	25000	13400	21100	12100
<i>Lead (mg/kg)</i>	63	22.9	39.6	21.0	33.4	75.9	26.2	17.8	18.3	12.1	24.1	16.6	11.3
<i>Magnesium (mg/kg)</i>	NL	12600	7110	10700	14600	22300	13400	5520	12000	6210	10900	12000	9270
<i>Manganese (mg/kg)</i>	1600	385	492	386	534	403	737	313	487	737	668	652	322
<i>Mercury (mg/kg)</i>	0.18	0.0131J	0.0284	0.0234	0.0229J	0.0296	0.0389	0.0224J	0.0285	0.0124J	0.0550	0.0152J	0.0153J
<i>Nickel (mg/kg)</i>	30	17.2	17.7	11.9	24.9	17.6	28.9	15.7	21.8	30.8	15.9	22.5	15.3
<i>Potassium (mg/kg)</i>	NL	1540	1350	949	2690	1040	2670	1250	1890	1730	1670	1820	1410
<i>Selenium (mg/kg)</i>	3.9	< 4.7	< 4.1	< 5.2	< 5.5	< 5.4	< 6.3	< 5.1	< 5.2	< 5.1	< 5.3	< 5.6	< 4.7
<i>Silver (mg/kg)</i>	2	< 0.589	< 0.511	< 0.651	< 0.682	< 0.678	< 0.790	< 0.632	< 0.655	< 0.640	< 0.657	< 0.702	< 0.584
<i>Sodium (mg/kg)</i>	NL	129J	103J	191	220	129J	170J	119J	151J	85.1J	224	132J	143J
<i>Thallium (mg/kg)</i>	NL	< 7.1	< 6.1	< 7.8	0.4J	< 8.1	< 9.5	0.6J	< 7.9	< 7.7	< 7.9	< 8.4	< 7.0
<i>Vanadium (mg/kg)</i>	NL	15.2B	19.4B	8.79B	25.2B	15.8B	31.6B	20.0B	20.9B	28.3B	16.4B	24.2B	15.5B
<i>Zinc (mg/kg)</i>	109	212B	112B	71.9B	95.7B	85.7B	99.7B	64.6B	90.8B	69.1B	79.4B	86.0B	47.5B

**NOTES:**

All sample analysis performed by Test America (Amherst, New York) in May 2009.

All units are milligrams per kilogram (mg/kg)

NL - Analyte not listed in 6 NYCRR Part 375 Environmental Remediation Programs Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives.

B - Analyte was detected in the associated Method Blank

D08 - Dilution required due to high concentration of target analyte(s)

J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Me

Concentrations within this range are estimated.

Table 3E: Surface Soil Samples  
Metals  
Riverview Industrial Center  
5335 River Road  
Tonawanda, NY

Soil Sample ID	Part 375	SS-13	SS-14	SS-15	SS-16	SS-17	SS-18	SS-19	SS-20	SS-21	SS-22
Date	Unrestrict ed Use	5/15/09	05/15/09	05/15/09	05/15/09	05/15/09	05/15/09	5/15/09	5/15/09	5/15/09	5/15/09
Matrix		Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Aluminum (mg/kg)	NL	14600	12400	15900	11500	14600	19800	17600	19800	10600	11400
Antimony (mg/kg)	NL	< 21.2	< 17.7	< 22.1	< 20.3	< 22.4	< 24.5	< 23.3	< 23.6	< 22.8	< 22.6
Arsenic (mg/kg)	13	4.7	5.3	11.2	5.8	6.0	7.3	9.0	13.3	6.7B	6.5B
Barium (mg/kg)	350	119	104	68.0	62.0	105	71.4	81.1	103	61.8	64.3
Beryllium (mg/kg)	7.2	0.736	0.809	0.827	0.552	0.765	0.877	0.867	1.16	0.363	0.466
Cadmium (mg/kg)	2.5	< 0.283	0.245	< 0.294	0.216J	0.543	< 0.327	< 0.311	0.195J	0.426	0.502
Calcium (mg/kg)	NL	45400	11900	2460	2070	3230	522	325	888	1960	1880
Chromium (mg/kg)	NL	20.0	20.5	18.2	14.2	18.0	24.1	23.2	24.1	12.9	14.4
Cobalt (mg/kg)	NL	11.3	7.78	11.4	8.00	9.71	17.2	9.89	42.4	6.06	7.84
Copper (mg/kg)	50	20.8	20.4	14.2	13.2	15.6	14.5	13.1	15.5	12.8B	14.1B
Iron (mg/kg)	NL	23200	23700	32400	15900	20800	33700	42200	44800	14400	16100
Lead (mg/kg)	63	23.3	34.4	29.7	36.0	34.5	25.9	26.0	53.6	39.2B	38.6B
Magnesium (mg/kg)	NL	13400	5020	4320	2820	3310	4520	2850	2990	2350	2850
Manganese (mg/kg)	1600	622	776	390	418	1290	1420	709	7510D	400	436
Mercury (mg/kg)	0.18	0.0168J	0.0667	0.0241J	0.0744	0.0974	0.0635	0.121	0.120	0.0926	0.0696
Nickel (mg/kg)	30	25.4	19.3	16.5	17.0	23.9	21.0	18.9	21.8	15.7	17.0
Potassium (mg/kg)	NL	2130	1310	1090	993	1310	1510	1350	1210	806	1000
Selenium (mg/kg)	3.9	< 5.7	< 4.7	< 5.9	< 5.4	< 6.0	< 6.5	0.9J	< 6.3	1.4J	< 6.0
Silver (mg/kg)	2	< 0.707	< 0.590	< 0.736	0.142J	< 0.748	< 0.818	0.126J	0.209J	< 0.760	< 0.754
Sodium (mg/kg)	NL	139J	173	152J	68.9J	86.3J	66.2J	101J	83.0J	65.0J	57.9J
Thallium (mg/kg)	NL	< 8.5	< 7.1	1.0J	< 8.1	< 9.0	< 9.8	< 9.3	1.6J	0.8J	0.9J
Vanadium (mg/kg)	NL	27.5B	20.7B	39.9B	24.4B	30.0B	40.7B	55.3B	64.1B	22.9	24.6
Zinc (mg/kg)	109	82.3B	84.1B	63.9B	90.1B	119B	96.0B	89.3B	128B	85.2B	94.4B

NOTES:  
All sample analysis performed by Test America (Amherst, New York) in May 2009.  
All units are milligrams per kilogram (mg/kg)  
NL - Analyte not listed in 6 NYCRR Part 375 Environmental Remediation Programs Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives.  
B - Analyte was detected in the associated Method Blank  
D08 - Dilution required due to high concentration of target analyte(s)  
J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Me



Concentrations within this range are estimated.

**Table 4A: Surface Water Samples  
Volatile Organic Compounds  
Riverview Industrial Center  
5335 River Road  
Tonawanda, NY**

Soil Sample ID	TOGs 1.1.1 Water Guidance Values for Ambient and Class D	SW-1	SW-2	SW-3	SW-4
Date		05/18/09	05/18/09	5/18/09	5/29/09
Time		10:45	11:10	11:20	8:00
Matrix		Water	Water	Water	Water
<i>2-Butanone</i>	50	< 5.0	< 20	< 5.0	< 5.0
<i>2-Methylnaphthalene</i>	42	< 1.0	< 4.0	< 1.0	< 1.0
<i>4-Isopropyltoluene</i>	5	< 1.0	< 4.0	< 1.0	< 1.0
<i>4-Methyl-2Pentadone</i>	NL	< 5.0	< 20	< 5.0	< 5.0
<i>Acetone</i>	50	< 1.0	8.8 D03,J	2.7 J	2.3 J
<i>Benzene</i>	10	< 1.0	< 4.0	< 1.0	< 1.0
<i>Carbon disulfide</i>	NL	< 1.0	< 4.0	< 1.0	< 1.0
<i>Chlorobenzene</i>	400	< 1.0	< 4.0	< 1.0	< 1.0
<i>Cyclohexane</i>	NL	< 1.0	< 4.0	< 1.0	< 1.0
<i>Ethylbenzene</i>	5	< 1.0	< 4.0	< 1.0	< 1.0
<i>Isopropylbenzene</i>	23	< 1.0	< 4.0	< 1.0	< 1.0
<i>Methylene Chloride</i>	200	< 1.0	< 4.0	< 1.0	< 1.0
<i>Methylcyclohexane</i>	NL	< 1.0	< 4.0	< 1.0	< 1.0
<i>MtBE</i>	NL	< 1.0	< 4.0	< 1.0	< 1.0
<i>Naphthalene</i>	10	< 1.0	< 4.0	< 1.0	< 1.0
<i>n-Butylbenzene</i>	5	< 1.0	< 4.0	< 1.0	< 1.0
<i>n-propylbenzene</i>	5	< 1.0	< 4.0	< 1.0	< 1.0
<i>sec-Butylbenzene</i>	5	< 1.0	< 4.0	< 1.0	< 1.0
<i>tert-Butylbenzene</i>	5	< 1.0	< 4.0	< 1.0	< 1.0
<i>Toluene</i>	480	< 1.0	2.2 D03,J	< 1.0	< 1.0
<i>Xylenes, Total</i>	5	< 2.0	< 8.0	< 2.0	< 2.0

**NOTES:**

All sample analysis performed by Test America (Amherst, New York) in May 2009.

Analytes only detected in surficial soil samples are listed.

All units are reported in micrograms per Liter (µg/L).

NL - Analyte not listed in TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations

D03 - Dilution required due to excessive foaming

J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.

**Table 4B: Surface Water Samples  
Semi-Volatile Organic Compounds  
Riverview Industrial Center  
5335 River Road  
Tonawanda, NY**

Soil Sample ID	TOGs 1.1.1 Water Guidance Values for Ambient and Class D	SW-1	SW-2	SW-3	SW-4
Date		05/18/09	05/18/09	5/18/09	5/29/09
Sample interval (feet)		10:45	11:10	11:20	8:00
Matrix		Water	Water	Water	Water
<i>2,4 Di MethylPhenol</i>	1000	< 10	< 12	< 9.7	< 12
<i>2-Methylnaphthalene</i>	42	< 10	< 12	< 9.7	< 12
<i>4-Nitrophenol</i>	NL	< 10	< 12	< 9.7	< 12
<i>Acenaphthene</i>	48	< 10	< 12	< 9.7	< 12
<i>Acetophenone</i>	NL	< 10	< 12	< 9.7	< 12
<i>Anthracene</i>	35	< 10	< 12	< 9.7	< 12
<i>Benzaldehyde</i>	NL	< 50	< 62	< 48	< 62
<i>Benzo(a)anthracene</i>	0.23	< 10	< 12	< 9.7	< 12
<i>Benzo(a)pyrene</i>	0.0012	< 10	< 12	< 9.7	< 12
<i>Benzo(b)fluoranthene</i>	0.002	< 10	< 12	< 9.7	< 12
<i>Benzo(g,h,i)perylene</i>	NL	< 10	< 12	< 9.7	< 12
<i>Benzo(k)fluoranthene</i>	0.002	< 10	< 12	< 9.7	< 12
<i>1,1' Biphenyl</i>	5	< 10	< 12	< 9.7	< 12
<i>Bis-(2 chloroethoxy) methane</i>	5	< 10	< 12	< 9.7	< 12
<i>Bis-(2 Ethylhexyl) phthalate</i>	5	< 10	< 12	< 9.7	< 12
<i>Carbazol</i>	NL	< 5.0	< 6.2	< 4.8	< 6.2
<i>Chrysene</i>	0.002	< 10	< 12	< 9.7	< 12
<i>Dibenzo(a,h)anthracene</i>	NL	< 10	< 12	< 9.7	< 12
<i>Dibenzofuran</i>	NL	< 10	< 12	< 9.7	< 12
<i>Diethyl phthalate</i>	50	< 10	< 12	< 9.7	< 12
<i>Di-n-butyl-phthalate</i>	50	< 10	< 12	< 9.7	< 12
<i>Di-n-octyl phthalate</i>	50	< 10	< 12	< 9.7	< 12
<i>Fluoranthene</i>	50	< 10	< 12	< 9.7	< 12
<i>Fluorene</i>	4.8	< 10	< 12	< 9.7	< 12
<i>Indeno(1,2,3-cd)pyrene</i>	0.002	< 10	< 12	< 9.7	< 12
<i>Naphthalene</i>	110	< 10	< 12	< 9.7	< 12
<i>N-nitrosdiphenylamine</i>	50	< 10	< 12	< 9.7	< 12
<i>Phenanthrene</i>	45	< 10	< 12	< 9.7	< 12
<i>Pyrene</i>	42	< 10	< 12	< 9.7	< 12

**NOTES:**

All sample analysis performed by Test America (Amherst, New York) in May 2009.

Analytes only detected in surficial soil samples are listed.

All units are reported in micrograms per Liter (µg/L).

NL - Analyte not listed in TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations

**Table 4C: Surface Water Samples**  
**Pesticides**  
**Riverview Industrial Center**  
**5335 River Road**  
**Tonawanda, NY**

Soil Sample ID	TOGS 1.1.1 Water Guidance Values for Ambient and Class D	SW-1	SW-2	SW-3	SW-4
Date		05/18/09	5/21/09	5/21/09	5/29/09
Depth (ft)		10:45	8:45	8:55	8:00
Matrix		Water	Water	Water	Water
<i>4,4'-DDT</i>	1x10 <sup>-5</sup>	< 0.048	< 0.048	< 0.049	< 0.057
<i>4-4'-DDD</i>	1x10 <sup>-5</sup>	< 0.048	< 0.048	< 0.049	< 0.057
<i>4-4'-DDE</i>	1x10 <sup>-5</sup>	< 0.048	< 0.048	< 0.049	< 0.057
<i>Aldrin</i>	0.001	< 0.048	< 0.048	< 0.049	< 0.057
<i>alpha-BHC</i>	NL	< 0.048	< 0.048	< 0.049	< 0.057
<i>alpha-Chlordane</i>	NL	< 0.048	< 0.048	< 0.049	< 0.057
<i>beta-BHC</i>	NL	< 0.048	< 0.048	< 0.049	< 0.057
<i>Chlordane</i>	2x10 <sup>-5</sup>	< 0.48	< 0.48	< 0.49	< 0.57
<i>delta-BHC</i>	NL	< 0.048	< 0.048	< 0.049	0.042J
<i>Dieldrin</i>	0.001	< 0.048	< 0.048	< 0.049	< 0.057
<i>Endosulfan I</i>	0.22	< 0.048	< 0.048	< 0.049	< 0.057
<i>Endosulfan II</i>	0.22	< 0.048	< 0.048	< 0.049	< 0.057
<i>Endosulfan Sulfate</i>	0.22	< 0.048	< 0.048	< 0.049	< 0.057
<i>Endrin</i>	0.002	< 0.048	< 0.048	< 0.049	< 0.057
<i>Endrin aldehyde</i>	5	< 0.048	< 0.048	< 0.049	< 0.057
<i>Endrin Ketone</i>	5	< 0.048	< 0.048	< 0.049	< 0.057
<i>gamma BHC (Lindane)</i>	ND	< 0.048	0.028J	0.027J	< 0.057
<i>gamma- Chlorodane</i>	5	< 0.048	< 0.048	0.044J	0.032J
<i>Heptachlor</i>	2x10 <sup>-4</sup>	< 0.048	< 0.048	< 0.049	< 0.057
<i>Heptachlor epoxide</i>	3x10 <sup>-4</sup>	< 0.048	< 0.048	< 0.049	< 0.057
<i>Methoxychlor</i>	35	< 0.048	< 0.048	< 0.049	< 0.057
<i>Toxaphene</i>	6x10 <sup>-6</sup>	< 0.48	< 0.48	< 0.49	< 0.57

NOTES:

All sample analysis performed by Test America (Amherst, New York) in May 2009.

Analytes only detected in surficial soil samples are listed.

All units are reported in micrograms per Liter (µg/L).

NL - Analyte not listed in TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations

J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection

**Table 4D: Surface Water Samples**  
**Polychlorinated Biphenyls**  
**Riverview Industrial Center**  
**5335 River Road**  
**Tonawanda, NY**

Soil Sample ID	TOGs 1.1.1 Water Guidance Values for Ambient and Class D	SW-1	SW-2	SW-3	SW-4
Date		05/18/09	05/18/09	5/18/09	5/29/09
Depth (ft)		10:45	11:10	11:20	8:00
Matrix		Water	Water	Water	Water
<i>Aroclor-1016</i>	1x10 <sup>-6</sup>	< 0.52	< 0.67	< 0.48	< 0.57
<i>Aroclor-1221</i>	1x10 <sup>-6</sup>	< 0.52	< 0.67	< 0.48	< 0.57
<i>Aroclor-1232</i>	1x10 <sup>-6</sup>	< 0.52	< 0.67	< 0.48	< 0.57
<i>Aroclor-1242</i>	1x10 <sup>-6</sup>	< 0.52	< 0.67	< 0.48	< 0.57
<i>Aroclor-1248</i>	1x10 <sup>-6</sup>	< 0.52	< 0.67	< 0.48	< 0.57
<i>Aroclor-1254</i>	1x10 <sup>-6</sup>	< 0.52	< 0.67	< 0.48	< 0.57
<i>Aroclor-1260</i>	1x10 <sup>-6</sup>	< 0.52	< 0.67	< 0.48	< 0.57

**NOTES:**

All sample analysis performed by Test America (Amherst, New York) in May 2009.

Analytes only detected in surficial soil samples are listed.

All units are reported in micrograms per Liter (µg/L).

NL - Analyte not listed in TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations

**Table 4E: Surface Water Samples**  
**Metals**  
**Riverview Industrial Center**  
**5335 River Road**  
**Tonawanda, NY**

Soil Sample ID	TOGs	SW-1	SW-2	SW-3	SW-4
Date	1.1.1	05/18/09	05/18/09	5/18/09	5/29/09
Depth (ft)	Water Guidance	10:45	11:10	11:20	8:00
Matrix	Values for Ambient and Class D	Water	Water	Water	Water
Aluminum	0.1	1.24	0.641	0.454	1.16
Antimony	0.003	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Arsenic	0.34	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Barium	1	0.0536	0.0428	0.582	0.187
Beryllium	0.003	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Cadmium	0.01	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Calcium	NL	44.4	50.1	33.1	79.1
Chromium	0.05	< 0.0040	< 0.0040	< 0.0040	< 0.0040
Cobalt	NL	< 0.0040	< 0.0040	< 0.0040	< 0.0040
Copper	1	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Iron	0.3	1.21	1.41	0.733	1.58
Lead	0.05	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Magnesium	35	14.0	11.9	13.6	59.6
Manganese	0.6	0.0829	0.261	0.931	0.334
Mercury	0.0000007	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	0.2	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Potassium	NL	2.26	3.06	1.90	3.45
Selenium	0.02	< 0.0150	< 0.0150	< 0.0150	< 0.0150
Silver	0.1	< 0.0030	< 0.0030	< 0.0030	< 0.0030
Sodium	NL	16.4	10.3	39.7	110
Vanadium	0.19	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Thallium	0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Zinc	5	< 0.0100	< 0.0100	0.0109	0.0206

**NOTES:**

All sample analysis performed by Test America (Amherst, New York) in May 2009.

Analytes only detected in surficial soil samples are listed.

All units are reported in milligrams per Liter (mg/L).

NL - Analyte not listed in TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations

**Table 5A: Soil Boring & Test Pit Samples**  
**Volatile Organic Compounds**  
**Riverview Industrial Center**  
**5335 River Road**  
**Tonawanda, NY**

Soil Sample ID	Part 375 Unrestricted Use	SB-1 1-3	SB-2	SB-5 0-2	SB-5	SB-6 1-4	SB-7	SB-8 0-4	SB-8D 5-9	SB-9 1-4	SB-12 1-3
Date		5/4/09	5/4/09	5/6/09	5/4/09	5/4/09	5/4/09	5/4/09	5/4/09	5/4/09	5/4/09
Depth (ft)		1-3'	0-2'	0-2'	1-3'	1-4'	1-3'	0-4'	5-9'	1-4'	1-3'
Matrix		Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid
<i>2-Butanone (µg/kg)</i>	50	< 31	< 32	< 41	< 29	< 32	< 32	< 150	< 32	< 30	15J
<i>2-Methylnaphthalene (µg/kg)</i>	42	< 6.2	< 6.1	< 8.1	< 5.9	< 6.4	< 6.5	< 30	< 6.4	< 6.2	< 6.3
<i>4-Isopropyltoluene (µg/kg)</i>	5	< 6.2	< 6.1	< 8.1	< 5.9	< 6.4	< 6.5	< 30	< 6.4	< 6.2	< 6.3
<i>4-Methyl-2 pentanone (µg/kg)</i>	NL	< 31	< 32	< 41	< 29	< 32	< 32	< 150	< 32	< 30	< 32
<i>Acetone (µg/kg)</i>	50	< 6.2	48	< 8.1	140	140	55	95DJ	88	66	240
<i>Benzene (µg/kg)</i>	10	< 6.2	< 6.1	< 8.1	< 5.9	1.8J	19	< 30	< 6.4	< 6.2	< 6.3
<i>Carbon disulfide (µg/kg)</i>	NL	< 6.2	< 6.1	< 8.1	2.0J	2.4J	< 6.5	8.1DJ	1.8J	< 6.2	4.1J
<i>Chlorobenzene (µg/kg)</i>	400	< 6.2	< 6.1	< 8.1	< 5.9	< 6.4	< 6.5	< 30	< 6.4	< 6.2	< 6.3
<i>Cyclohexane (µg/kg)</i>	NL	< 6.2	< 6.1	< 8.1	< 5.9	25	3.6J	< 30	< 6.4	< 6.2	< 6.3
<i>Ethylbenzene (µg/kg)</i>	5	< 6.2	< 6.1	< 8.1	< 5.9	< 6.4	1.6J	< 30	< 6.4	< 6.2	< 6.3
<i>Isopropylbenzene (µg/kg)</i>	23	< 6.2	< 6.1	< 8.1	< 5.9	< 6.4	4.0J	< 30	< 6.4	< 6.2	< 6.3
<i>Methylene Chloride (µg/kg)</i>	200	< 6.2	< 6.1	< 8.1	3.4J	< 6.4	< 6.5	< 30	< 6.4	< 6.2	3.7J
<i>Methylcyclohexane (µg/kg)</i>	NL	< 6.2	< 6.1	< 8.1	< 5.9	11	6.2J	< 30	< 6.4	< 6.2	< 6.3
<i>MtBE (µg/kg)</i>	NL	< 6.2	< 6.1	< 8.1	< 5.9	< 6.4	< 6.5	< 30	< 6.4	< 6.2	< 6.3
<i>Naphthalene (µg/kg)</i>	10	< 6.2	< 6.1	< 8.1	< 5.9	< 6.4	< 6.5	< 30	< 6.4	< 6.2	< 6.3
<i>n-Butylbenzene (µg/kg)</i>	5	< 6.2	< 6.1	< 8.1	< 5.9	< 6.4	< 6.5	< 30	< 6.4	< 6.2	< 6.3
<i>n-propylbenzene (µg/kg)</i>	5	< 6.2	< 6.1	< 8.1	< 5.9	< 6.4	< 6.5	< 30	< 6.4	< 6.2	< 6.3
<i>sec-Butylbenzene (µg/kg)</i>	5	< 6.2	< 6.1	< 8.1	< 5.9	< 6.4	< 6.5	< 30	< 6.4	< 6.2	< 6.3
<i>tert-Butylbenzene (µg/kg)</i>	5	< 6.2	< 6.1	< 8.1	< 5.9	< 6.4	< 6.5	< 30	< 6.4	< 6.2	< 6.3
<i>Toluene (µg/kg)</i>	480	< 6.2	< 6.1	< 8.1	< 5.9	1.5J	1.4J	< 30	< 6.4	< 6.2	< 6.3
<i>Xylenes, Total (µg/kg)</i>	5	< 12	< 12	< 18	< 12	5.5J	1.9J	< 59	< 13	< 12	< 13

**NOTES:**

All sample analysis performed by Test America (Amherst, New York) in May 2009.

Analytes only detected in surficial soil samples are listed.

All units are reported in micrograms per kilogram (µg/kg).

NL - Analyte not listed in 6 NYCRR Part 375 Environmental Remediation Programs Table 375-6.8(a):  
Unrestricted Use Soil Cleanup Objectives.

J -Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the  
Method Detection Limit (MDL). Concentrations within this range are estimated.

**Table 5A: Soil Boring & Test Pit Samples**  
**Volatile Organic Compounds**  
**Riverview Industrial Center**  
**5335 River Road**  
**Tonawanda, NY**

Soil Sample ID	Part 375 Unrestricted Use	SB-13 1-5	SB-14 1-4	SB-15 1-4	SB-16 1-4	SB-17 1-4	SB-17 1-5	SB-18 1-4	B-1 0-2	B-1 4-6	B-2 0-2	B-2 4-7	B-7 1-4
Date		5/4/09	5/4/09	5/4/09	5/5/09	5/5/09	5/5/09	5/5/09	5/6/09	5/5/09	5/6/09	5/5/09	5/6/09
Depth (ft)		1-5'	1-4'	1-4'	1-4'	1-4'	1-5'	1-4'	0-2'	4-6'	0-2'	4-7'	1-4'
Matrix		Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid
2-Butanone (µg/kg)	50	< 32	28J	< 31	< 27	43	< 130	< 140	< 32	< 32	< 33	< 30	< 33
2-Methylnaphthalene (µg/kg)	42	< 6.3	< 5.8	< 6.2	< 5.4	< 6.5	< 27	< 27	< 6.5	< 6.4	< 6.7	< 5.9	< 6.6
4-Isopropyltoluene (µg/kg)	5	< 6.3	< 5.8	< 6.2	< 5.4	< 6.5	< 27	< 27	< 6.5	< 6.4	< 6.7	< 5.9	< 6.6
4-Methyl-2 pentanone (µg/kg)	NL	< 32	< 29	< 31	< 27	< 32	< 130	< 140	< 32	< 32	< 33	< 30	< 33
Acetone (µg/kg)	50	53	240	48	56	240	< 27	260D	85	80	< 6.7	29J	< 6.6
Benzene (µg/kg)	10	< 6.3	< 5.8	< 6.2	5.4	4.1J	< 27	640D	< 6.5	11	< 6.7	< 5.9	< 6.6
Carbon disulfide (µg/kg)	NL	2.5J	2.1J	2.6J	2.1J	1.7J	< 27	460D,J	< 6.5	< 6.4	< 6.7	1.4J	< 6.6
Chlorobenzene (µg/kg)	400	< 6.3	< 5.8	< 6.2	< 5.4	< 6.5	< 27	< 27	< 6.5	< 6.4	< 6.7	< 5.9	< 6.6
Cyclohexane (µg/kg)	NL	< 6.3	< 5.8	4.7J	40	82	8.0DJ	6100D	< 6.5	< 6.4	< 6.7	< 5.9	< 6.6
Ethylbenzene (µg/kg)	5	< 6.3	< 5.8	< 6.2	< 5.4	1.6J	140D	1700D	< 6.5	170D	< 6.7	< 5.9	< 6.6
Isopropylbenzene (µg/kg)	23	< 6.3	< 5.8	< 6.2	11	17	45D	1100D	< 6.5	38D	< 6.7	< 5.9	< 6.6
Methylene Chloride (µg/kg)	200	5.4J	< 5.8	< 6.2	< 5.4	< 6.5	< 27	< 27	< 6.5	< 6.4	< 6.7	< 5.9	< 6.6
Methylcyclohexane (µg/kg)	NL	< 6.3	< 5.8	3.7J	63	160	14DJ	18000D	< 6.5	< 6.4	< 6.7	< 5.9	< 6.6
MtBE (µg/kg)	NL	< 6.3	< 5.8	< 6.2	< 5.4	< 6.5	< 27	< 27	< 6.5	< 6.4	< 6.7	< 5.9	< 6.6
Naphthalene (µg/kg)	10	< 6.3	< 5.8	< 6.2	< 5.4	< 6.5	< 27	< 27	< 6.5	< 6.4	< 6.7	< 5.9	< 6.6
n-Butylbenzene (µg/kg)	5	< 6.3	< 5.8	< 6.2	< 5.4	< 6.5	< 27	< 27	< 6.5	< 6.4	< 6.7	< 5.9	< 6.6
n-propylbenzene (µg/kg)	5	< 6.3	< 5.8	< 6.2	< 5.4	< 6.5	< 27	< 27	< 6.5	< 6.4	< 6.7	< 5.9	< 6.6
sec-Butylbenzene (µg/kg)	5	< 6.3	< 5.8	< 6.2	< 5.4	< 6.5	< 27	< 27	< 6.5	< 6.4	< 6.7	< 5.9	< 6.6
tert-Butylbenzene (µg/kg)	5	< 6.3	< 5.8	< 6.2	< 5.4	< 6.5	< 27	< 27	< 6.5	< 6.4	< 6.7	< 5.9	< 6.6
Toluene (µg/kg)	480	< 6.3	< 5.8	< 6.2	1.7B,J	2.6B,J	< 27	34D	< 6.5	2.8J	< 6.7	< 5.9	< 6.6
Xylenes, Total (µg/kg)	5	< 13	< 12	4.5J	26	10J	150D	2900D	< 13	510D	< 13	150	< 13

**NOTES:**

All sample analysis performed by Test America (Amherst, New York) in May 2009.

Analytes only detected in surficial soil samples are listed.

All units are reported in micrograms per kilogram (µg/kg).

NL - Analyte not listed in 6 NYCRR Part 375 Environmental Remediation Programs Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives.

J -Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.



Table 5A: Soil Boring & Test Pit Samples  
Volatile Organic Compounds  
Riverview Industrial Center  
5335 River Road  
Tonawanda, NY

Soil Sample ID	Part 375 Unrestricted Use	B-13 0-4	B-15 0-4	MW-005 8-10	MW-5-9	MW-8 14-16	TP-3	TP-4	WS4P*	TP-6	TP-6B	TP-10	TP-13	TP-19	TP-21
Date		5/5/09	5/6/09	5/8/09	5/11/09	5/13/09	5/11/09	5/11/09	5/14/09	5/11/09	5/11/09	5/12/09	5/12/09	5/14/09	5/14/09
Depth (ft)		0-4'	0-4'	8-10'	8-10'	14-16'	NA	5-6'		5-7'	12-14'	6-10'	0-2'	4-6'	1-4'
Matrix		Solid	Solid	Solid	Solid	Solid	Solid	Solid	Water	Solid	Solid	Solid	Solid	Solid	Solid
2-Butanone (µg/kg)	50	< 31	< 34	< 28	< 27	< 30	< 29	< 31	69D	< 35	< 26	12J	< 30	490D,J,B	< 6900
2-Methylnapthalene (µg/kg)	42	< 6.2	< 6.8	< 5.7	< 5.4	< 5.9	< 5.7	< 6.2	< 1.0	< 7.0	< 5.3	< 5.7	< 6.2	< 6.1	< 1400
4-Isopropyltoluene (µg/kg)	5	< 6.2	< 6.8	< 5.7	< 5.4	< 5.9	< 5.7	< 6.2	< 1.0	< 7.0	< 5.3	< 5.7	< 6.2	< 6.1	< 1400
4-Methyl-2 pentanone (µg/kg)	NL	< 31	< 34	< 28	< 27	< 30	< 29	< 31	< 5.0	< 35	< 26	6.3J	< 30	< 31	< 6900
Acetone (µg/kg)	50	< 6.2	< 6.8	< 5.7	< 5.4	< 5.9	120	100	60D	< 7.0	26	95	< 6.2	110	< 1400
Benzene (µg/kg)	10	< 6.2	< 6.8	< 5.7	< 5.4	< 5.9	1.3J	< 6.2	350D	2000D	< 5.3	< 5.7	< 6.2	< 6.1	820D,J
Carbon disulfide (µg/kg)	NL	< 6.2	< 6.8	< 5.7	< 5.4	1.2J	2.8J	1.5J	< 1.0	1.9J	< 5.3	< 5.7	< 6.2	4.8J	< 1400
Chlorobenzene (µg/kg)	400	< 6.2	< 6.8	< 5.7	< 5.4	< 5.9	1.3J	< 6.2	< 1.0	< 7.0	< 5.3	< 5.7	15	< 6.1	390D,J
Cyclohexane (µg/kg)	NL	< 6.2	< 6.8	< 5.7	< 5.4	< 5.9	9.7	< 6.2	71D	51000D	< 5.3	30	< 6.2	1700D	23000D
Ethylbenzene (µg/kg)	5	< 6.2	< 6.8	< 5.7	< 5.4	< 5.9	340D	< 6.2	360D	5900D	< 5.3	5.1J	< 6.2	8.5	14000D
Isopropylbenzene (µg/kg)	23	< 6.2	< 6.8	< 5.7	< 5.4	< 5.9	110D	< 6.2	37D	6400D	< 5.3	6	< 6.2	410D	2500D
Methylene Chloride (µg/kg)	200	< 6.2	< 6.8	< 5.7	< 5.4	< 5.9	< 5.7	< 6.2	< 1.0	< 7.0	< 5.3	< 5.7	< 6.2	6.5	< 1400
Methylcyclohexane (µg/kg)	NL	< 6.2	< 6.8	< 5.7	< 5.4	< 5.9	220D	< 6.2	61D	45000D	< 5.3	110	< 6.2	2700D	19000D
MtBE (µg/kg)	NL	< 6.2	< 6.8	< 5.7	< 5.4	< 5.9	< 5.7	< 6.2	< 1.0	< 7.0	< 5.3	< 5.7	< 6.2	< 6.1	< 1400
Naphthalene (µg/kg)	10	< 6.2	< 6.8	< 5.7	< 5.4	< 5.9	< 5.7	< 6.2	< 1.0	< 7.0	< 5.3	< 5.7	< 6.2	< 6.1	< 1400
n-Butylbenzene (µg/kg)	5	< 6.2	< 6.8	< 5.7	< 5.4	< 5.9	< 5.7	< 6.2	< 1.0	< 7.0	< 5.3	< 5.7	< 6.2	< 6.1	< 1400
n-propylbenzene (µg/kg)	5	< 6.2	< 6.8	< 5.7	< 5.4	< 5.9	< 5.7	< 6.2	< 1.0	< 7.0	< 5.3	< 5.7	< 6.2	< 6.1	< 1400
sec-Butylbenzene (µg/kg)	5	< 6.2	< 6.8	< 5.7	< 5.4	< 5.9	< 5.7	< 6.2	< 1.0	< 7.0	< 5.3	< 5.7	< 6.2	< 6.1	< 1400
tert-Butylbenzene (µg/kg)	5	< 6.2	< 6.8	< 5.7	< 5.4	< 5.9	< 5.7	< 6.2	< 1.0	< 7.0	< 5.3	< 5.7	< 6.2	< 6.1	< 1400
Toluene (µg/kg)	480	< 6.2	< 6.8	< 5.7	< 5.4	< 5.9	77D,J	< 6.2	7.8D	21B	< 5.3	< 5.7	62B	1.2J	4000D
Xylenes, Total (µg/kg)	5	< 12	< 14	< 11	< 11	< 12	4200D	< 6.2	490D	770D,J	< 11	66	1.7J	10J	160000

NOTES:

All sample analysis performed by Test America (Amherst, New York) in May 2009.

Analytes only detected in surficial soil samples are listed.

All units are reported in micrograms per kilogram (µg/kg).

NL - Analyte not listed in 6 NYCRR Part 375 Environmental Remediation Programs Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives.

J -Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.



Former Gasoline Distribution Terminal  
5335 River Road  
Tonawanda, New York  
Semi-Volatile Organic Compounds  
Table 5B: Soil Boring & Test Pit Samples

Soil Sample ID	Part 375 Unrestricted Use	SB-1 1-3	SB-2	SB-5 0-2	SB-5	SB-6 1-4	SB-7	SB-8 0-4	SB-8D 5-9	SB-9 1-4	SB-12 1-3
Date		5/4/09	05/05/09	5/6/09	5/4/09	5/4/09	5/4/09	5/4/09	5/4/09	5/4/09	5/4/09
Sample interval (feet)		1-3'	1-2'	0-2'	1-3'	1-4'	1-3'	0-4'	5-9'	1-4'	1-3'
Matrix		Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid
2,4 Di MethylPhenol	NL	< 210	< 210	< 290	< 200	< 220	< 220	< 220	< 220	< 210	< 210
2-Methylphenol	NL	< 210	< 210	< 290	< 200	< 220	< 220	< 220	< 220	< 210	< 210
2-Methylnaphthalene	NL	< 210	< 210	32J	< 200	< 220	21H,J	9,2H,J	< 220	< 210	< 210
4-Chlorophenyl phenyl ether	NL	< 210	< 210	55J	< 200	< 220	< 220	< 220	< 220	< 210	< 210
4-Methylphenol	NL	< 210	< 210	< 290	< 200	< 220	< 220	< 220	< 220	< 210	< 210
4-Nitroaniline	NL	< 210	< 210	< 290	< 200	< 220	< 220	< 220	< 220	< 210	< 210
4-Nitrophenol	NL	< 210	< 210	< 290	< 200	< 220	< 220	< 220	< 220	< 210	< 210
Acenaphthene	20000	< 210	< 210	< 290	< 200	< 220	< 220	< 220	< 220	< 210	< 210
Acenaphthylene	100000	< 210	< 210	< 290	< 200	< 220	< 220	< 220	< 220	< 210	< 210
Acetophenone	NL	< 210	< 210	< 290	< 200	< 220	< 220	< 220	< 220	< 210	< 210
Anthracene	100000	< 210	< 210	< 290	< 200	< 220	< 220	< 220	< 220	< 210	< 210
Benzaldehyde	NL	< 210	< 210	< 290	< 200	< 220	< 220	< 220	< 220	< 210	< 210
Benzo(a)anthracene	1000	< 210	< 210	30J	13H,J	< 220	< 220	< 220	< 220	< 210	< 210
Benzo(a)pyrene	1000	11H,J	< 210	29J	< 200	< 220	< 220	13H,J	< 220	< 210	< 210
Benzo(b)fluoranthene	1000	15H,J	< 210	36J	< 200	< 220	15H,J	< 220	< 220	< 210	< 210
Benzo(g,h,i)perylene	100000	10H,J	< 210	25J	< 200	< 220	< 220	< 220	< 220	< 210	< 210
Benzo(k)fluoranthene	800	13H,J	< 210	< 290	< 200	< 220	17H,J	< 220	< 220	< 210	< 210
Biphenyl	NL	< 210	< 210	< 290	< 200	< 220	< 220	< 220	< 220	< 210	< 210
Bis-(2 chloroethoxy) methane	NL	< 210	< 210	< 290	< 200	< 220	< 220	< 220	< 220	< 210	< 210
Bis-(2 Ethylhexyl) phthalate	NL	< 210	< 210	< 290	< 200	< 220	< 220	< 220	< 220	< 210	< 210
Butyl benzyl phthalate	NL	< 210	< 210	90J	< 200	< 220	< 220	< 220	< 220	< 210	< 210
Carbazole	NL	< 210	< 210	< 290	< 200	< 220	< 220	< 220	< 220	< 210	< 210
Chrysene	1000	16H,J	8,9H,J	330	9,5H,J	8,9J	< 220	< 220	< 220	< 210	< 210
Dibenzo(a,h)anthracene	330	< 210	< 210	< 290	< 200	< 220	< 220	< 220	< 220	< 210	< 210
Dibenzofuran	NL	< 210	< 210	< 290	< 200	< 220	< 220	13H,J	< 220	< 210	< 210
Diethyl phthalate	NL	< 210	< 210	53J	< 200	< 220	< 220	< 220	< 220	< 210	< 210
Di-n-butyl-phthalate	NL	< 210	< 210	< 290	< 200	< 220	< 220	< 220	< 220	< 210	< 210
Di-n-octyl-phthalate	NL	< 210	< 210	< 290	< 200	< 220	< 220	< 220	< 220	< 210	< 210
Fluoranthene	100,000	9,1H,J	< 210	66J	9,9H,J	< 220	< 220	< 220	< 220	< 210	< 210
Fluorene	100000	< 210	< 210	< 290	< 200	< 220	< 220	< 220	< 220	< 210	< 210
Indeno(1,2,3-cd)pyrene	30000	< 210	< 210	19J	< 200	< 220	< 220	< 220	< 220	< 210	< 210
Naphthalene	500	< 210	< 210	< 290	< 200	< 220	< 220	< 220	< 220	< 210	< 210
N-Nitrosodi-n-propylamine	12000	< 210	< 210	< 290	< 200	< 220	< 220	< 220	< 220	< 210	< 210
N-Nitrosodiphenylamine	NL	< 210	< 210	< 290	< 200	< 220	< 220	< 220	< 220	< 210	< 210
Phenanthrene	100000	12H,J	< 210	32J	8,7H,J	< 220	< 220	< 220	< 220	< 210	< 210
Pyrene	100000	< 210	< 210	46J	< 200	< 220	< 220	< 220	< 220	< 210	< 210

NOTES:  
All sample analysis performed by Test America (Amherst, New York) in May 2009.  
All units are micrograms per kilogram (µg/kg)  
NL - Analyte not listed in 6 NYCRR Part 375 Environmental Remediation Programs Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives.  
  
J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).

H - Sample was extracted past holding time, but analyzed within analysis holding time.

D - Dilution requirted on sample for analysis.

Former Gasoline Distribution Terminal  
5335 River Road  
Tonawanda, New York  
Semi-Volatile Organic Compounds  
Table 5B: Soil Boring & Test Pit Samples

Soil Sample ID	Part 375 Unrestricted Use	SB-13 1-5	SB-14 1-4	SB-15 1-4	SB-16 1-4	SB-17 1-4	SB-17 1-5	SB-18 1-4	SB-22 4-6	B-1 0-2	B-1 4-6	B-2 0-2	B-2 4-7	B-7 1-4
Date		5/4/09	5/4/09	5/4/09	5/5/09	5/5/2009	5/5/2009	5/5/2009	5/5/2009	05/06/09	05/05/09	5/6/09	5/5/2009	5/6/2009
Sample interval (feet)		1-5'	1-4'	1-4'	1-4'	1-4'	1-5'	1-4'	4-6'	0-2'	4-6'	0-2'	4-7'	1-4'
Matrix		Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid
2,4 Di MethylPhenol	NL	< 220	< 200	< 210	< 1900	< 220	< 210	< 2100	< 210	< 230	< 1100	< 220	< 210	< 230
2-Methylphenol	NL	< 220	< 200	< 210	< 1900	< 220	< 210	150H,D,J	< 210	< 230	< 1100	< 220	< 210	< 230
2-Methylnaphthalene	NL	< 220	< 200	42J	58000D	1900	2000H	6700D	< 210	< 230	240H,D,J	< 220	520H	< 230
4-Chlorophenyl phenyl ether	NL	< 220	< 200	< 210	< 1900	< 220	< 210	< 2100	< 210	< 230	< 1100	< 220	< 210	< 230
4-Methylphenol	NL	< 220	< 200	< 210	< 1900	< 220	< 210	200H,D,J	< 210	< 230	< 1100	< 220	< 210	< 230
4-Nitroaniline	NL	< 220	< 200	< 210	< 1900	< 220	110H,J	< 2100	< 210	< 230	< 1100	< 220	< 210	< 230
4-Nitrophenol	NL	< 220	< 200	< 210	< 1900	< 220	< 210	< 2100	< 210	< 230	< 1100	< 220	120H,J	< 230
Acenaphthene	20000	< 220	< 200	< 210	5500D	100J	110H,J	990H,D,J	< 210	< 230	44D,J	< 220	< 210	< 230
Acenaphthylene	100000	< 220	< 200	< 210	< 1900	< 220	< 210	190D,J	< 210	< 230	< 1100	< 220	< 210	< 230
Acetophenone	NL	< 220	< 200	< 210	< 1900	47J	< 210	< 2100	< 210	< 230	< 1100	< 220	< 210	< 230
Anthracene	100000	< 220	< 200	< 210	4300D	27J	62H,J	160D,J	< 210	< 230	44D,J	< 220	< 210	< 230
Benzaldehyde	NL	< 220	< 200	< 210	< 1900	< 220	< 210	< 2100	< 210	< 230	< 1100	< 220	< 210	< 230
Benzo(a)anthracene	1000	< 220	< 200	< 210	< 1900	43J	55H,J	350H,D,J	<210	24J	93H,D,J	14J	19H,J	18J
Benzo(a)pyrene	1000	< 220	< 200	< 210	1800D,J	38J	56H,J	< 2100	< 210	25J	78H,D,J	9.5J	13H,J	< 230
Benzo(b)fluoranthene	1000	< 220	< 200	< 210	690D,J	58J	68H,J	170H,D,J	< 210	25J	< 1100	13J	10H,J	< 230
Benzo(g,h,i)perylene	100000	< 220	< 200	< 210	1100D,J	28J	48H,J	160H,D,J	< 210	18J	< 1100	< 220	12H,J	< 230
Benzo(k)fluoranthene	800	< 220	< 200	< 210	< 1900	18J	43H,J	< 2100	9.9H,J	23J	< 1100	< 220	12H,J	< 230
Biphenyl	NL	< 220	< 200	< 210	< 1900	21J	140H,J	870H,D,J	< 210	< 230	< 1100	< 220	< 210	< 230
Bis-(2 chloroethoxy) methane	NL	< 220	< 200	< 210	< 1900	< 220	12H,J	< 2100	< 210	< 230	< 1100	< 220	< 210	< 230
Bis-(2 Ethylhexyl) phthalate	NL	< 220	< 200	< 210	< 1900	< 220	< 210	< 2100	< 210	< 230	< 1100	< 220	< 210	< 230
Butyl benzyl phthalate	NL	< 220	< 200	< 210	< 1900	< 220	< 210	< 2100	< 210	< 230	< 1100	< 220	< 210	< 230
Carbazole	NL	< 220	< 200	< 210	< 1900	< 220	24H,J	< 2100	< 210	< 230	< 1100	< 220	< 210	< 230
Chrysene	1000	< 220	< 200	< 210	4900D	42J	69H,J	< 2100	< 210	26J	78H,D,J	< 220	14H,J	9.5J
Dibenzo(a,h)anthracene	330	< 220	< 200	< 210	< 1900	< 220	14H,J	< 2100	< 210	10J	< 1100	< 220	< 210	< 230
Dibenzofuran	NL	< 220	< 200	< 210	3700D	96J	< 210	290D,J	< 210	< 230	< 1100	< 220	< 210	< 230
Diethyl phthalate	NL	< 220	< 200	< 210	< 1900	< 220	< 210	< 2100	< 210	< 230	< 1100	< 220	< 210	< 230
Di-n-butyl-phthalate	NL	< 220	< 200	< 210	< 1900	< 220	< 210	< 2100	< 210	< 230	< 1100	< 220	< 210	< 230
Di-n-octyl-phthalate	NL	< 220	< 200	< 210	< 1900	< 220	< 210	< 2100	< 210	< 230	< 1100	< 220	< 210	17J
Fluoranthene	100,000	< 220	< 200	< 210	2700D	84J	170H,J	270H,D,J	< 210	23J	99H,D,J	< 220	18H,J	< 230
Fluorene	100000	< 220	< 200	12J	8300D	150J	190H,J	1500H,D,J	< 210	< 230	68H,D,J	< 220	72H,J	< 230
Indeno(1,2,3-cd)pyrene	30000	< 220	< 200	< 210	250D,J	29J	41H,J	< 2100	< 210	17J	51H,D,J	< 220	8.4H,J	< 230
Naphthalene	500	< 220	< 200	< 210	< 1900	53J	480H	2000H,D,J	< 210	< 230	120D,J	< 220	< 210	< 230
N-Nitrosodi-n-propylamine	12000	< 220	< 200	< 210	< 1900	< 220	89H,J	< 2100	< 210	< 230	< 1100	< 220	< 210	< 230
N-Nitrosodiphenylamine	NL	< 220	< 200	< 210	< 1900	< 220	< 210	< 2100	< 210	< 230	< 1100	< 220	110H,J,L	< 230
Phenanthrene	100000	< 220	< 200	37J	29000D	260	560H	3500H,D	< 210	21J	310H,D,J	9.1J	190H,J	< 230
Pyrene	100000	< 220	< 200	16J	18000D	81J	150H,J	990H,D,J	< 210	22J	93H,D,J	< 220	24H,J	< 230

NOTES:  
All sample analysis performed by Test America (Amherst, New York) in May 2009.  
All units are micrograms per kilogram (µg/kg)  
NL - Analyte not listed in 6 NYCRR Part 375 Environmental Remediation Programs Table 375-6.8(a); Unrestricted Use Soil Cleanup Objectives.  
  
J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).

H - Sample was extracted past holding time, but analyzed within analysis holding time.

D - Dilution requirted on sample for analysis.



Former Gasoline Distribution Terminal  
5335 River Road  
Tonawanda, New York  
Semi-Volatile Organic Compounds  
Table 5B: Soil Boring & Test Pit Samples

Soil Sample ID	Part 375 Unrestricted Use	B-13 0-4	B-15 0-4	MW-005 8-10	MW-006 2-4	MW-5-9	MW-8 14-16	TP-3	TP-4	WS4P*	TP-6	TP-6B	TP-10	TP-13	TP-19	TP-21
Date		5/5/09	5/6/09	5/8/09	5/8/09	5/11/09	05/13/09	05/11/09	05/11/09	05/14/09	5/11/2009	5/11/2009	5/12/2009	5/12/2009	5/14/2009	5/14/2009
Sample interval (feet)		0-4'	0-4'	8-10'	2-4'	8-10'	14-16'	NA	5-6'		5-7'	12-14'	6-10'	0-2'	4-6'	1-4'
Matrix		Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Water	Solid	Solid	Solid	Solid	Solid	Solid
2,4 Di MethylPhenol	NL	< 210	< 230	< 190	< 190	< 190	< 200	1700D,J	< 210	< 100	78000D	< 190	< 200	< 1000	27000D	< 960
2-Methylphenol	NL	< 210	< 230	< 190	< 190	< 190	< 200	< 1900	< 210	< 100	< 2300	< 190	< 200	< 1000	< 1100	< 960
2-Methylnaphthalene	NL	< 210	< 230	< 190	< 190	< 190	9.0J	< 1900	< 210	490D	< 2300	< 190	230	< 1000	< 1100	46000D
4-Chlorophenyl phenyl ether	NL	< 210	< 230	< 190	< 190	< 190	< 200	< 1900	< 210	< 100	< 2300	< 190	< 200	< 1000	< 1100	< 960
4-Methylphenol	NL	< 210	< 230	< 190	< 190	< 190	< 200	< 1900	< 210	< 100	< 2300	< 190	< 200	< 1000	< 1100	< 960
4-Nitroaniline	NL	< 210	< 230	< 190	< 190	< 190	< 200	< 1900	< 210	< 100	< 2300	< 190	< 200	< 1000	< 1100	< 960
4-Nitrophenol	NL	< 210	< 230	< 190	< 190	< 190	< 200	< 1900	< 210	< 100	< 2300	< 190	< 200	< 1000	< 1100	< 960
Acenaphthene	20000	< 210	< 230	< 190	< 190	< 190	< 200	< 1900	< 210	20D,J	1300D,J	< 190	< 200	< 1000	960D,J	3500D
Acenaphthylene	100000	< 210	< 230	< 190	< 190	< 190	< 200	< 1900	< 210	< 100	< 2300	< 190	< 200	< 1000	< 1100	< 960
Acetophenone	NL	< 210	< 230	< 190	< 190	< 190	< 200	< 1900	< 210	< 100	< 2300	< 190	< 200	< 1000	< 1100	< 960
Anthracene	100000	< 210	< 230	13J	< 190	< 190	< 200	99D,J	< 210	< 100	< 2300	< 190	< 200	< 1000	260D,J	2800D,J
Benzaldehyde	NL	< 210	330N	< 190	< 190	< 190	< 200	< 1900	< 210	< 100	< 2300	< 190	< 200	< 1000	< 1100	< 960
Benzo(a)anthracene	1000	< 210	22J	50J	23J	< 190	< 200	140D,J	< 210	< 100	< 2300	< 190	< 200	< 1000	< 1100	3100D,J
Benzo(a)pyrene	1000	< 210	25J	42J	18J	< 190	< 200	80D,J	< 210	< 100	< 2300	< 190	< 200	< 1000	< 1100	2200D,J
Benzo(b)fluoranthene	1000	< 210	225	55J	23J	< 190	< 200	< 1900	< 210	< 100	< 2300	< 190	< 200	< 1000	< 1100	2900D,J
Benzo(g,h,i)perylene	100000	< 210	19J	26J	< 190	< 190	< 200	< 1900	< 210	< 100	< 2300	< 190	< 200	< 1000	68D,J	970D,J
Benzo(k)fluoranthene	800	< 210	225	15J	11J	< 190	< 200	< 1900	< 210	< 100	< 2300	< 190	< 200	< 1000	< 1100	830D,J
Biphenyl	NL	< 210	< 230	< 190	< 190	< 190	< 200	< 1900	< 210	< 100	530D,J	< 190	< 200	< 1000	< 1100	1300D,J
Bis-(2 chloroethoxy) methane	NL	< 210	< 230	< 190	< 190	< 190	< 200	< 1900	< 210	< 100	< 2300	< 190	< 200	< 1000	< 1100	700D,L,J
Bis-(2 Ethylhexyl) phthalate	NL	< 210	< 230	< 190	170J	< 190	< 200	< 1900	< 210	< 100	< 2300	< 190	< 200	1300D	790D,J	500D,J
Butyl benzyl phthalate	NL	< 210	< 230	< 190	< 190	< 190	< 200	< 1900	< 210	< 100	< 2300	< 190	< 200	< 1000	< 1100	< 960
Carbazole	NL	< 210	< 230	< 190	< 190	< 190	< 200	< 1900	< 210	< 100	< 2300	< 190	< 200	< 1000	< 1100	< 960
Chrysene	1000	< 210	22J	48J	16J	< 190	< 200	92D,J	< 210	< 100	< 2300	< 190	< 200	< 1000	230	2700D,J
Dibenzo(a,h)anthracene	330	< 210	< 230	< 190	< 190	< 190	< 200	< 1900	< 210	< 100	< 2300	< 190	< 200	< 1000	< 1100	310D,J
Dibenzofuran	NL	< 210	< 230	< 190	< 190	< 190	< 200	< 1900	< 210	< 100	500D,J	< 190	< 200	< 1000	650D,J	2800D,J
Diethyl phthalate	NL	< 210	< 230	< 190	< 190	< 190	< 200	< 1900	< 210	< 100	< 2300	< 190	< 200	< 1000	< 1100	< 960
Di-n-butyl-phthalate	NL	< 210	< 230	< 190	< 190	< 190	< 200	< 1900	< 210	< 100	< 2300	< 190	< 200	< 1000	< 1100	< 960
Di-n-octyl-phthalate	NL	< 210	13J	< 190	< 190	< 190	< 200	< 1900	< 210	< 100	< 2300	< 190	< 200	< 1000	< 1100	< 960
Fluoranthene	100,000	< 210	265	110J	35J	< 190	< 200	180D,J	< 210	< 100	200D,J	< 190	< 200	< 1000	240D,J	9700D
Fluorene	100000	< 210	< 230	< 190	< 190	< 190	< 200	190D,J	< 210	21D,J	760D,J	< 190	< 200	< 1000	1100D	5300D
Indeno(1,2,3-cd)pyrene	30000	< 210	14J	25J	< 190	< 190	< 200	< 1900	< 210	< 100	< 2300	< 190	< 200	< 1000	< 1100	1100D,J
Naphthalene	500	< 210	< 230	< 190	< 190	< 190	< 200	480D,J	< 210	280D	26000D	< 190	250	< 1000	2000D	26000D
N-Nitrosodi-n-propylamine	12000	< 210	< 230	< 190	< 190	< 190	< 200	< 1900	< 210	< 100	< 2300	< 190	< 200	< 1000	< 1100	< 960
N-Nitrosodiphenylamine	NL	< 210	< 230	< 190	< 190	< 190	< 200	< 1900	< 210	76D,L,J	3600D	< 190	< 200	< 1000	< 1100	< 960
Phenanthrene	100000	< 210	21J	88J	21J	< 190	< 200	560D,J	< 210	33D,J	< 2300	< 190	< 200	< 1000	2800D	16000D
Pyrene	100000	< 210	25J	93J	31J	< 190	< 200	200D,J	< 210	< 100	700D,J	< 190	< 200	110D,J	680D,J	7500D

NOTES:  
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All units are micrograms per kilogram (µg/kg)  
NL - Analyte not listed in 6 NYCRR Part 375 Environmental Remediation Programs Table 375-6.8(a); Unrestricted Use Soil Cleanup Objectives.

J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).

H - Sample was extracted past holding time, but analyzed within analysis holding time.

D - Dilution requirtd on sample for analysis.



Table 5C: Soil Boring & Test Pit Samples  
Pesticides  
Riverview Industrial Center  
5335 River Road  
Tonawanda, NY

Soil Sample ID	Part 375 Unrestricted Use	SB-1 1-3	SB-2	SB-5 0-2	SB-5	SB-6 1-4	SB-7	SB-8 0-4	SB-8D 5-9	SB-9 1-4	SB-12 1-3	SB-13 1-5	SB-14 1-4	SB-15 1-4	SB-16 1-4	SB-17 1-4	SB-17 1-5	SB-18 1-4	SB-22 4-6	B-1 0-2	B-1 4-6
Date		5/4/09	05/05/09	5/6/09	5/4/09	5/4/09	5/4/09	5/4/09	5/4/09	5/4/09	5/4/09	5/4/09	5/4/09	5/4/09	5/5/09	5/5/2009	5/5/2009	5/5/2009	5/5/2009	05/06/09	05/05/09
Depth'		1-3'	1-2'	0-2'	1-3'	1-4'	1-3'	0-4'	5-9'	1-4'	1-3'	1-5'	1-4'	1-4'	1-4'	1-4'	1-5'	1-4'	4-6'	0-2'	4-6'
Matrix		Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid
4,4'-DDT	3.3	< 2.1	< 2.1	< 2.8	< 2.0	< 2.1	< 2.2	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.0	< 2.1	< 37	< 2.2	< 2.1	< 2.1	< 2.1	< 2.2	< 2.1
4-4'-DDD	3.3	< 2.1	< 2.1	< 2.8	< 2.0	< 2.1	< 2.2	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.0	< 2.1	< 37	< 2.2	< 2.1	< 2.1	< 2.1	< 2.2	< 2.1
4-4'-DDE	3.3	< 2.1	< 2.1	2.2J	< 2.0	< 2.1	< 2.2	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.0	< 2.1	< 37	< 2.2	< 2.1	< 2.1	< 2.1	< 2.2	1.4J
Aldrin	5	< 2.1	< 2.1	< 2.8	< 2.0	< 2.1	< 2.2	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.0	< 2.1	< 37	< 2.2	< 2.1	< 2.1	< 2.1	< 2.2	< 2.1
alpha-BHC	20	< 2.1	< 2.1	< 2.8	< 2.0	< 2.1	< 2.2	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.0	< 2.1	< 37	< 2.2	1.3J	1.5J	1.5J	< 2.2	< 2.1
alpha-Chlordane	94	< 2.1	< 2.1	< 2.8	< 2.0	< 2.1	< 2.2	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.0	< 2.1	< 37	< 2.2	< 2.1	< 2.1	< 2.1	< 2.2	< 2.1
beta-BHC	36	< 2.1	< 2.1	< 2.8	< 2.0	< 2.1	< 2.2	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.0	< 2.1	< 37	< 2.2	< 2.1	< 2.1	< 2.1	< 2.2	< 2.1
Chlordane	NL	< 21	< 21	< 28	< 20	< 21	< 22	< 21	< 21	< 21	< 21	< 21	< 20	< 21	< 370	< 22	< 21	< 21	< 21	< 22	< 21
delta-BHC	40	< 2.1	< 2.1	< 2.8	1.4J	< 2.1	< 2.2	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.0	< 2.1	< 37	< 2.2	< 2.1	1.5J	< 2.1	< 2.2	< 2.1
Dieldrin	5	< 2.1	< 2.1	< 2.8	< 2.0	< 2.1	< 2.2	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.0	< 2.1	< 37	< 2.2	< 2.1	< 2.1	< 2.1	< 2.2	< 2.1
Endosulfan I	2400	< 2.1	< 2.1	< 2.8	< 2.0	< 2.1	< 2.2	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.0	< 2.1	< 37	< 2.2	< 2.1	< 2.1	< 2.1	< 2.2	< 2.1
Endosulfan II	2400	< 2.1	< 2.1	< 2.8	< 2.0	< 2.1	< 2.2	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.0	< 2.1	< 37	< 2.2	< 2.1	0.71J	< 2.1	< 2.2	0.95J
Endosulfan Sulfate	2400	< 2.1	< 2.1	< 2.8	< 2.0	< 2.1	< 2.2	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.0	< 2.1	< 37	< 2.2	< 2.1	< 2.1	< 2.1	< 2.2	< 2.1
Endrin	14	< 2.1	< 2.1	< 2.8	< 2.0	< 2.1	< 2.2	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.0	< 2.1	< 37	< 2.2	< 2.1	1.4J	< 2.1	< 2.2	1.1J
Endrin aldehyde	NL	< 2.1	< 2.1	< 2.8	< 2.0	< 2.1	< 2.2	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.0	< 2.1	< 37	< 2.2	< 2.1	< 2.1	< 2.1	< 2.2	< 2.1
Endrin Ketone	NL	< 2.1	< 2.1	< 2.8	< 2.0	< 2.1	< 2.2	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.0	< 2.1	< 37	< 2.2	< 2.1	< 2.1	< 2.1	< 2.2	< 2.1
gamma BHC (Lindane)	100	< 2.1	< 2.1	< 2.8	< 2.0	< 2.1	< 2.2	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.0	< 2.1	< 37	< 2.2	< 2.1	1.2	1.4J	< 2.2	< 2.1
gamma- Chlorodane	NL	< 2.1	< 2.1	< 2.8	< 2.0	< 2.1	< 2.2	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.0	< 2.1	< 37	< 2.2	< 2.1	< 2.1	< 2.1	2.2	1.5J
Heptachlor	42	< 2.1	< 2.1	< 2.8	< 2.0	< 2.1	< 2.2	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.0	< 2.1	< 37	< 2.2	< 2.1	< 2.1	< 2.1	< 2.2	< 2.1
Heptachlor epoxide	NL	< 2.1	< 2.1	< 2.8	< 2.0	< 2.1	< 2.2	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.0	< 2.1	< 37	< 2.2	< 2.1	< 2.1	< 2.1	< 2.2	< 2.1
Methoxychlor	NL	< 2.1	< 2.1	< 2.8	< 2.0	< 2.1	< 2.2	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.0	< 2.1	< 37	< 2.2	< 2.1	1.8J	< 2.1	< 2.2	< 2.1
Toxaphene	NL	< 21	< 21	< 28	< 20	< 21	< 22	< 21	< 21	< 21	< 21	< 21	< 20	< 21	< 370	< 22	< 21	< 21	< 21	< 22	< 21

NOTES:  
All sample analysis performed by Test America (Amherst, New York) in May 2009.  
All units are micrograms per kilogram (µg/kg)  
NL - Analyte not listed in 6 NYCRR Part 375 Environmental Remediation Programs Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives.  
J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).  
Concentrations within this range are estimated.  
QFL - Florisil clean-up (EPA 3620) performed on extract.

Table 5C: Soil Boring & Test Pit Samples  
Pesticides  
Riverview Industrial Center  
5335 River Road  
Tonawanda, NY

Soil Sample ID	Part 375 Unrestricted Use	B-2 02	B-2 4-7	B-7 1-4	B-13 0-4	B-15 0-4	MW-005 8-10	MW-006 2-4	MW-5-9	MW-8 14-16	TP-3	TP-4	TP-6	TP-6B	TP-10	TP-13	TP-19	TP-21
Date		5/6/2009	5/5/2009	5/6/2009	5/5/09	05/06/09	5/8/09	5/8/09	5/11/09	05/13/09	05/11/09	05/11/09	5/11/2009	5/11/2009	5/12/2009	5/12/2009	5/14/2009	5/14/2009
Depth'		0-2'	4-7'	1-4'	0-4'	0-4'	8-10'	2-4'	8-10'	14-16'	NA	5-6'	5-7'	12-14'	6-10'	0-2'	4-6'	1-4'
Matrix		Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid
4,4'-DDT	3.3	< 2.2	< 2.0	< 2.3	< 2.0	2.8	< 1.9	< 1.9	< 1.8	< 2.0	< 1.9	< 2.1	< 23	< 1.8	< 1.9	1.4QFL,J	< 43	< 37
4-4'-DDD	3.3	< 2.2	< 2.2	< 2.3	< 2.0	2.0J	< 1.9	< 1.9	< 1.8	< 2.0	< 1.9	< 2.1	< 23	< 1.8	< 1.9	< 2.0	< 43	< 37
4-4'-DDE	3.3	2.0J	< 2.2	< 2.3	< 2.0	2.4	< 1.9	< 1.9	< 1.8	< 2.0	< 1.9	< 2.1	< 23	< 1.8	< 1.9	< 2.0	< 43	< 37
Aldrin	5	< 2.2	< 2.2	< 2.3	< 2.0	< 2.3	< 1.9	< 1.9	< 1.8	< 2.0	< 1.9	< 2.1	< 23	< 1.8	3.0QFL	< 2.0	< 43	< 37
alpha-BHC	20	< 2.2	< 2.2	< 2.3	< 2.0	< 2.3	< 1.9	< 1.9	< 1.8	< 2.0	< 1.9	< 2.1	< 23	< 1.8	< 1.9	< 2.0	< 43	< 37
alpha-Chlordane	94	< 2.2	< 2.2	< 2.3	< 2.0	< 2.3	< 1.9	< 1.9	< 1.8	< 2.0	< 1.9	< 2.1	< 23	< 1.8	< 1.9	< 2.0	< 43	< 37
beta-BHC	36	< 2.2	< 2.2	< 2.3	< 2.0	< 2.3	< 1.9	< 1.9	< 1.8	< 2.0	< 1.9	< 2.1	< 23	< 1.8	< 1.9	< 2.0	< 43	< 37
Chlordane	NL	< 22	< 20	< 23	< 20	< 23	< 19	< 19	< 18	< 20	< 19	< 21	< 230	< 18	< 19	< 20	< 430	< 370
delta-BHC	40	< 2.2	< 2.2	< 2.3	< 2.0	< 2.3	< 1.9	< 1.9	< 1.8	< 2.0	< 1.9	< 2.1	< 23	< 1.8	< 1.9	< 2.0	< 43	< 37
Dieldrin	5	< 2.2	< 2.2	< 2.3	< 2.0	< 2.3	< 1.9	< 1.9	< 1.8	< 2.0	< 1.9	< 2.1	< 23	< 1.8	< 1.9	< 2.0	< 43	< 37
Endosulfan I	2400	< 2.2	< 2.2	< 2.3	< 2.0	< 2.3	< 1.9	< 1.9	< 1.8	< 2.0	1.0QFL,J	< 2.1	22QFL,J	< 1.8	4.5QFL	< 2.0	< 43	< 37
Endosulfan II	2400	< 2.2	< 2.2	< 2.3	< 2.0	< 2.3	< 1.9	< 1.9	< 1.8	< 2.0	< 1.9	< 2.1	240QFL	< 1.8	< 1.9	< 2.0	< 43	< 37
Endosulfan Sulfate	2400	< 2.2	< 2.2	< 2.3	< 2.0	< 2.3	< 1.9	< 1.9	< 1.8	< 2.0	< 1.9	< 2.1	< 23	< 1.8	0.47QFL,J	< 2.0	< 43	< 37
Endrin	14	< 2.2	< 2.2	< 2.3	< 2.0	< 2.3	< 1.9	< 1.9	< 1.8	< 2.0	1.5QFL,J	< 2.1	< 23	< 1.8	1.7QFL,J	0.98QFL,J	< 43	< 37
Endrin aldehyde	NL		< 2.2	< 2.3	< 2.0	< 2.3	< 1.9	< 1.9	< 1.8	< 2.0	< 1.9	< 2.1	< 23	< 1.8	< 1.9	< 2.0	< 43	< 37
Endrin Ketone	NL		< 2.2	< 2.3	< 2.0	< 2.3	< 1.9	< 1.9	< 1.8	< 2.0	< 1.9	< 2.1	< 23	< 1.8	< 1.9	< 2.0	< 43	< 37
gamma BHC (Lindane)	100	< 2.2	< 2.2	< 2.3	< 2.0	< 2.3	< 1.9	< 1.9	< 1.8	< 2.0	< 1.9	< 2.1	23QFL	< 1.8	3.0QFL	< 2.0	< 43	< 37
gamma- Chlorodane	NL	< 2.2	< 2.2	< 2.3	< 2.0	< 2.3	< 1.9	< 1.9	< 1.8	< 2.0	0.81QFL,J	< 2.1	< 23	0.55QFL,J	0.84QFL,J	< 2.0	< 43	< 37
Heptachlor	42	< 2.2	< 2.2	< 2.3	< 2.0	< 2.3	< 1.9	< 1.9	< 1.8	< 2.0	< 1.9	< 2.1	84QFL,B	< 1.8	< 1.9	< 2.0	< 43	< 37
Heptachlor epoxide	NL	< 2.2	< 2.2	< 2.3	< 2.0	< 2.3	< 1.9	< 1.9	< 1.8	< 2.0	< 1.9	< 2.1	< 23	0.51 OFL,J	0.73QFL,J	< 2.0	< 43	< 37
Methoxychlor	NL	< 2.2	< 2.2	< 2.3	< 2.0	0.75	< 1.9	< 1.9	< 1.8	< 2.0	< 1.9	< 2.1	140QFL	< 1.8	< 1.9	< 2.0	< 43	< 37
Toxaphene	NL	< 22	< 20	< 23	< 20	< 23	< 19	< 19	< 18	< 2.0	< 19	< 21	< 230	< 18	< 19	< 20	< 430	< 370

NOTES:  
All sample analysis performed by Test America (Amherst, New York) in May 2009.  
All units are micrograms per kilogram (µg/kg)  
NL - Analyte not listed in 6 NYCRR Part 375 Environmental Remediation Programs Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives.  
J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).  
Concentrations within this range are estimated.  
QFL - Florisil clean-up (EPA 3620) performed on extract.

Soil Sample ID	Part 375 Unrestricted Use	SB-1 1-3	SB-2	SB-5 0-2	SB-5	SB-6 1-4	SB-7	SB-8 0-4	SB-8D 5-9	SB-9 1-4	SB-12 1-3	SB-13 1-5	SB-14 1-4	SB-15 1-4	SB-16 1-4	SB-17 1-4	SB-17 1-5	SB-18 1-4	SB-22 4-6	B-1 0-2	B-1 4-6
Date		5/4/09	05/05/09	5/6/09	5/4/09	5/4/09	5/4/09	5/4/09	5/4/09	5/4/09	5/4/09	5/4/09	5/4/09	5/4/09	5/5/09	5/5/2009	5/5/2009	5/5/2009	5/5/2009	05/06/09	05/05/09
Depth'		1-3'	1-2'	0-2'	1-3'	1-4'	1-3'	0-4'	5-9'	1-4'	1-3'	1-5'	1-4'	1-4'	1-4'	1-4'	1-5'	1-4'	4-6'	0-2'	4-6'
Matrix		Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Aroclor-1016	100	< 2.1	< 2.1	< 28	< 20	< 21	< 22	< 21	< 21	< 21	< 21	< 21	< 20	< 21	< 37	< 22	< 21	< 21	< 21	< 22	< 21
Aroclor-1221	100	< 21	< 2.1	< 28	< 20	< 21	< 22	< 21	< 21	< 21	< 21	< 21	< 20	< 21	< 37	< 22	< 21	< 21	< 21	< 22	< 21
Aroclor-1232	100	< 21	< 2.1	< 28	< 20	< 21	< 22	< 21	< 21	< 21	< 21	< 21	< 20	< 21	< 37	< 22	< 21	< 21	< 21	< 22	< 21
Aroclor-1242	100	< 21	< 2.1	< 28	< 20	< 21	< 22	< 21	< 21	< 21	< 21	< 21	< 20	< 21	< 37	< 22	< 21	< 21	< 21	< 22	< 21
Aroclor-1248	100	< 21	< 2.1	< 28	< 20	< 21	< 22	< 21	< 21	14QSU,C,J	18C,J	< 21	< 20	< 21	< 37	< 22	< 21	< 21	< 21	< 22	< 21
Aroclor-1254	100	< 21	< 2.1	< 28	< 20	< 21	< 22	< 21	< 21	< 21	11C,J	< 21	< 20	< 21	< 37	< 22	< 21	< 21	< 21	< 22	< 21
Aroclor-1260	100	< 21	< 2.1	< 28	< 20	< 21	< 22	< 21	< 21	< 21	< 21	< 21	< 20	< 21	< 37	< 22	< 21	< 21	< 21	< 22	< 21

NOTES:  
All sample analysis performed by Test America (Amherst, New York) in May 20  
All units are micrograms per kilogram (µg/kg)  
QSU - Sulfur (EPA 3660) clean-up performed on extract.  
J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).  
Concentrations within this range are estimated.  
D - Dilution requirted on sample for analysis.

B-2 02	B-2 4-7	B-7 1-4	B-13 0-4	B-15 0-4	MW-005 8-10	MW-006 2-4	MW-5-9	MW-8 14-16	TP-3	TP-4	WS4P*	TP-6	TP-6B	TP-10	TP-13	TP-19	TP-21
5/6/2009	5/5/2009	5/6/2009	5/5/09	05/06/09	5/8/09	5/8/09	5/11/09	05/13/09	05/11/09	05/11/09	05/14/09	5/11/2009	5/11/2009	5/12/2009	5/12/2009	5/14/2009	5/14/2009
0-2'	4-7'	1-4'	0-4'	0-4'	8-10'	2-4'	8-10'	14-16'	NA	5-6'		5-7'	12-14'	6-10'	0-2'	4-6'	1-4'
Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Water	Solid	Solid	Solid	Solid	Solid	Solid
< 22	< 20	< 23	< 20	< 23	< 19	< 19	< 18	< 20	< 19	< 21	< 0.50	< 2300	< 18	< 19	< 20	< 21	< 19
< 22	< 20	< 23	< 20		< 19	< 19	< 18	< 20	< 19	< 21	< 0.50	< 2300	< 18	< 19	< 20	< 21	< 19
< 22	< 20	< 23	< 20	< 23	< 19	< 19	< 18	< 20	< 19	< 21	< 0.50	< 2300	< 18	< 19	< 20	< 21	< 19
< 22	< 20	< 23	< 20	< 23	< 19	< 19	< 18	< 20	< 19	< 21	< 0.50	< 2300	< 18	< 19	< 20	< 21	< 19
< 22	< 20	< 23	< 20	< 23	< 19	< 19	< 18	< 20	< 19	< 21	26QSU	20000QSU,D	< 18	< 19	< 20	< 21	< 19
< 22	< 20	< 23	< 20	< 23	< 19	< 19	< 18	< 20	80QSU	< 21	< 0.50	< 2300	< 18	< 19	< 20	46	< 19
< 22	< 20	< 23	< 20	< 23	< 19	< 19	< 18	< 20	< 19	< 21	< 0.50	< 2300	< 18	< 19	< 20	< 21	< 19

NOTES:

All sample analysis performed by Test America (Amherst, New York) in May 2009.

All units are micrograms per kilogram (µg/kg)

QSU - Sulfur (EPA 3660) clean-up performed on extract.

J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).

Concentrations within this range are estimated.

D - Dilution required on sample for analysis.

Table 5E: Soil Boring & Test Pit Samples  
Metals  
Riverview Industrial Center  
5335 River Road  
Tonawanda, NY

Soil Sample ID	Part 375 Unrestricted Use	SB-1 1-3	SB-2	SB-5 0-2	SB-5	SB-6 1-4	SB-7	SB-8 0-4	SB-8D 5-9	SB-9 1-4	SB-12 1-3	SB-13 1-5	SB-14 1-4
Date		5/4/09	5/4/09	5/6/09	5/4/09	5/4/09	5/4/09	5/4/09	5/4/09	5/4/09	5/4/09	5/4/09	5/4/09
Depth (ft)		1-3'	1-2'	0-2'	1-3'	1-4'	1-3'	0-4'	5-9'	1-4'	1-3'	1-5'	1-4'
Matrix		Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Aluminum	NL	11300B	13700B	22000B	16900B	15800B	15700B	16700B	15800B	17700B	18300B	18300B	11900B
Antimony	NL	< 17.9	< 19.2	< 23.2	< 16.7	< 19.7	< 18.4	< 18.3	< 17.8	< 19.3	< 17.4	< 17.8	< 16.8
Arsenic	13	10.4	7.1	5.5	3.5	4.5	4.7	4.1	4.5	3.4	8.1	3.8	3.1
Barium	350	90.5	112	187	151	129	96.8	119	124B	89.3B	170B	117B	59.2B
Beryllium	7.2	0.520	0.566	1.02	0.877	0.638	0.821	0.699	0.697B	0.683B	0.866B	0.791B	0.428B
Cadmium	2.5	0.517	0.081J	0.318	0.206J	0.226J	0.117J	0.163J	0.331B	0.196J,B	0.282B	0.212J,B	0.170J,B
Calcium	NL	38500	2800	24800	36400	39300	2260	9740	7610	1700	26800	2980	1810
Chromium	NL	18.7	18.3	28.7	20.6	19.9	21.5	22.0	22.0B	21.1B	23.3B	20.7B	13.8B
Cobalt	NL	12.5	11.1	14.8	14.8	11.4	12.7	11.9	12.1	12.0B	21.1B	7.40B	7.04B
Copper	50	163	17.6	52.8	52.6	19.2	10.9	17.7	31.5B	11.5B	26.4B	13.8B	8.8B
Iron	NL	46600	24700	31000	23400	21200	29100	29200	24300B	24000B	28900B	24400B	17400B
Lead	63	21.9	10.3	29.4	21.5	10.1	15.5	10.6	11.1	14.6	14.8	17.2	12.5
Magnesium	NL	11500	5240	10500	10200	14100	3420	6680	9710	4640	13300	3660	2900
Manganese	1600	4030D,B	269B	723B	599B	658B	1540B	1430B	612B1,B	355B1,B	1280B1,B	186B1,B	316B1,B
Mercury	0.18	0.0266	0.0169J	0.0461	0.0198J	0.0184J	0.0320	0.0249J	< 0.0249	0.0138J	< 0.0257	0.0221J	0.0146J
Nickel	30	23.5	24.3	33.1	22.3	26.5	15.3	27.7	29.9	19.3	36.4	15.6	12.4
Potassium	NL	2390	2110	3190	3070	2970	1520	2550	2200	1330	2430	1390	878
Selenium	3.9	< 4.8	< 5.1	< 6.2	< 4.5	< 5.3	< 4.9	< 4.9	1.4J,B	1.2J,B	1.0JB	1.5J,B	1.3J,B
Silver	2	< 0.596	< 0.639	0.150J,B	0.102J,B	0.096J,B	0.112J,B	0.114J,B	< 0.594	< 0.644	< 0.580	< 0.594	< 0.558
Sodium	NL	205	145J	258	233	199	122J	143J	167	190	196	265	114J
Thallium	NL	< 7.2	< 7.7	< 9.3	< 6.7	< 7.9	< 7.4	< 7.3	0.5J	< 38.6	< 7.0	< 7.1	< 6.7
Vanadium	NL	24.5	23.6	39.6	29.3	26.8	41.0	28.3	26.8B	33.6B	30.5B	31.3B	25.2B
Zinc	109	113B	55.9B	113B	74.4B	59.5B	65.8B	70.3B	75.8B	65.0B	65.2B	54.1B	53.8B

NOTES:  
All sample analysis performed by Test America (Amherst, New York) in May 2009.  
All units are milligrams per kilogram (mg/kg)  
NL - Analyte not listed in 6 NYCRR Part 375 Environmental Remediation Programs Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives.  
  
B - Analyte was detected in the associated Method Blank  
D08 - Dilution required due to high concentration of target analyte(s)

J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).

Concentrations within this range are estimated.

Table 5E: Soil Boring & Test Pit Samples  
Metals  
Riverview Industrial Center  
5335 River Road  
Tonawanda, NY

Soil Sample ID	Part 375 Unrestricted Use	SB-15 1-4	SB-16 1-4	SB-17 1-4	SB-17 1-5	SB-18 1-4	SB-22 4-6	B-1 0-2	B-1 4-6	B-2 0-2	B-2 4-7	B-7 1-4	B-13 0-4	B-15 0-4	MW-005 8-10	MW-006 2-4	MW-5-9
Date		5/4/09	5/5/09	5/5/09	5/5/09	5/5/09	5/5/09	05/06/09	05/05/09	5/6/09	5/5/2009	5/6/2009	5/5/09	5/6/09	5/8/09	5/8/09	5/11/09
Depth (ft)		1-4'	1-4'	1-4'	1-5'	1-4'	4-6'	0-2'	4-6'	0-2'	4-7'	1-4'	0-4'	0-4'	8-10'	2-4'	8-10'
Matrix		Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Aluminum	NL	21000B	14700B	12300B	12300B	14800B	18700B	13100B	12500B	16400B	15600B	16900B	14800B	24300B	12900B	10600B	9280
Antimony	NL	< 19.6	< 15.4	< 19.9	< 17.1	< 17.2	< 17.4	< 20.2	< 18.3	< 21	< 17.1	< 18.9	< 17.2	< 21.2	< 17.1	< 18.2	< 15.4
Arsenic	13	6.0	3	5.3	4.4	1.7J	3.5	3.9	4.7	4.0	4.0	3.9	3.3	3.9	3.9	4.0	2.2
Barium	350	168B	136B	82.1B	61.9	120	98.5	78.0	79.5	93.3	136	210	60.4B	167	101B	93.2B	62.5
Beryllium	7.2	0.907B	0.850B	0.545B	0.552	0.667	0.608	0.597	0.631	0.686	1.02	1.61	0.505B	1.17	0.609B	0.527B	0.446
Cadmium	2.5	0.248J,B	0.306B	0.400B	0.177J	0.143J	0.114J	0.404	0.370	0.125J	0.705	0.185J	0.186J,B	0.134J	0.272B	0.251B	0.084J
Calcium	NL	7290	8640	23900	60600D	15800	2080	23200	1930	983	16300	2070	671	2080	48300	55500	53800
Chromium	NL	25.7B	19.4B	98.2B	16.5	18.0	22.8	15.3	15.6	21.4	17.7	21.7	14.0B	26.7	17.8B	15.5B	13.8
Cobalt	NL	12.6B	9.95B	6.75B	7.33	10.6	9.27	8.61	7.85	8.25	9.94	12.1	5.69B	10.4	8.91B	8.38B	8.09
Copper	50	21.2B	16.7B	21.9B	17.5	12.9	11.4	10.7	10.4	9.8	17.2	19.7	9.0B	15.6	20.1B	16.0B	15.2
Iron	NL	30900B	20500B	27400B	18300	21500	28200	18200	18400	21600	21300	25500	17800B	27600	20200B	18300B	15100
Lead	63	11.2	10.8	32.8	8.0	13.7	12.1	26.1	22.1	11.7	12.8	11.1	14.2	12.1	17.2	8.4	7.1
Magnesium	NL	7000	5680	9130	16300	6400	4510	10600	2740	4060	5880	5420	2330	5570	12600	16500	18300
Manganese	1600	926B1,B	275B1,B	2500B1,B	497B	645B	243B	585B	196B	855B	542B	881B	147B1,B	286B	421B1,B	507B1,B	530
Mercury	0.18	< 0.0104	0.0141J	0.0335	< 0.0248	0.0223J	0.0199J	0.0378	0.0487	0.0461	0.0110J	0.0198J	0.0143J	0.0255J	< 0.0229	< 0.0242	< 0.0222
Nickel	30	33.0	24.7	15.5	19.7	18.4	17.2	15.4	15.0	19.4	25.7	32.1	10.7	30.2	22.8	20.7	18.2
Potassium	NL	2310	1710	1400	3480	2140	1660	1470	1140	1840	1820	1720	1040	1840	1880	2460	2030
Selenium	3.9	1.3J,B	< 4.2	1.3J,B	< 4.6	0.7J	< 4.6	0.8J	0.8J	< 5.6	< 4.6	< 5.0	1.8J,B	< 5.7	1.0J,B	0.9J,B	< 4.1
Silver	2	< 0.652	< 0.530	< 0.662	< 0.571	0.108J,B	0.107J,B	0.113J,B	0.178J,B	< 0.700	< 0.570	0.168J,B	< 0.574	0.164J,B	< 0.571	< 0.606	< 0.515
Sodium	NL	153J	149	276	364	171	160J	153J	86.3J	94.3J	105J	81.4J	79.1J	76.3J	159J	231	172
Thallium	NL	< 7.8	0.4J	< 7.9	< 6.9	< 6.9	< 7.0	< 8.1	< 7.3	< 8.4	< 0.3	< 7.6	< 6.9	< 8.5	< 6.9	< 7.3	< 6.2
Vanadium	NL	31.9B	24.5B	51.9B	22.3	27.1	34.5	27.5	27.6	31.0	23.3	29.8	26.7B	35.5	23.2B	20.2B	17.8
Zinc	109	70.4B	60.7B	86.1B	56.1B	56.6B	54.9B	82.1B	74.0B	80.4B	61.6B	71.8B	64.2B	79.2B	60.2B	58.7B	52.9B

NOTES:  
All sample analysis performed by Test America (Amherst, New York) in May 2009.  
All units are milligrams per kilogram (mg/kg)  
NL - Analyte not listed in 6 NYCRR Part 375 Environmental Remediation Programs Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives.  
  
B - Analyte was detected in the associated Method Blank  
D08 - Dilution required due to high concentration of target analyte(s)

**J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).**

**Concentrations within this range are estimated.**



Table 5E: Soil Boring & Test Pit Samples  
Metals  
Riverview Industrial Center  
5335 River Road  
Tonawanda, NY

Soil Sample ID	Part 375 Unrestricted Use	MW-8 14-16	TP-3	TP-4	WS4P*	TP-6	TP-6B	TP-10	TP-13	TP-19	TP-21
Date		05/13/09	05/11/09	05/11/09	05/14/09	5/11/2009	5/11/2009	5/12/2009	5/12/2009	5/14/2009	5/14/2009
Depth (ft)		14-16'	NA	5-6'		5-7'	12-14'	6-10'	0-2'	4-6'	1-4'
Matrix		Solid	Solid	Solid	Water	Solid	Solid	Solid	Solid	Solid	Solid
Aluminum	NL	9490	11200	12500	104	14400	8100	10500	969	18200B	1560B
Antimony	NL	< 17.8	< 16.7	< 17.9	< 0.0200	< 19.3	< 15.8	< 17.8	< 90.1	< 18.5	< 16.2
Arsenic	13	3.4	4.1	2.6	0.0336	2.5J	2.6	3.5	1.7J	4.2	3.5
Barium	350	96.7	90.9	136	0.800	123	77.8	94.7	7.47	176	15.0
Beryllium	7.2	1.50	0.604	0.585	0.0040	0.560	0.396	0.527	0.227J	2.22B	0.151J,B
Cadmium	2.5	3.61	0.441	< 0.238	0.0038	0.090J	< 0.237	0.058J	< 0.240	0.483	0.427
Calcium	NL	109000D	17800	2370	300	23500	43100	53000	402000D	124000D	38000
Chromium	NL	24.7	26.1	14.6	0.129	17.8	11.7	17.1	3.90	9.88	2.52
Cobalt	NL	2.35	7.04	5.72	0.0564	6.35	7.23	8.49	0.859	4.19	2.62
Copper	50	2150	20.2	8.2	0.127	17.2	11.8	16.4	3.5	9.2	5.4
Iron	NL	14200	16600	15,900	130	16200	13500	18200	2010	10600	4360
Lead	63	167	28.4	7.6	0.193	24.6	5.1	8.4	3.3	21.4B	61.7B
Magnesium	NL	18200	7,090	3,290	93.5	15300	12500	15900	7250	12600	3560
Manganese	1600	889	357	153	5.11	300	493	478	103	908	201
Mercury	0.18	< 0.0241	0.0822	0.0471	< 0.0236	0.0299	< 0.0217	0.0130J	0.0106J	0.0137J	0.0206J
Nickel	30	12.7	19.2	14.8	0.144	18.4	16.7	21.1	4.27	9.15	7.62
Potassium	NL	613	1180	1070	20.8	1450	1650	2160	572	1310	269
Selenium	3.9	< 4.8	0.7J	< 4.8	< 0.0150	< 5.1	< 4.2	< 4.7	< 24	1.3J	< 4.3
Silver	2	0.208J	0.090J,B	< 0.596	< 0.0030	< 0.644	< 0.528	< 0.593	< 0.600	0.096J,B	0.102J,B
Sodium	NL	496	125J	119J	27.6	178J	140J	178	67.2J	613	79.8J
Thallium	NL	< 7.1	< 6.7	< 7.2	< 0.0200	< 7.7	< 6.3	< 7.1	< 7.2	< 7.4	< 6.5
Vanadium	NL	7.66	19.9	18.6	0.180	23.4	15.1	20.8	3.08	11.9	3.49
Zinc	109	349B	82.9B	57.1B	0.697	76.2B	44B	66.8B	10.0B	45.6B	283B

NOTES:  
All sample analysis performed by Test America (Amherst, New York) in May 2009.  
All units are milligrams per kilogram (mg/kg)  
NL - Analyte not listed in 6 NYCRR Part 375 Environmental Remediation Programs Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives.  
  
B - Analyte was detected in the associated Method Blank  
D08 - Dilution required due to high concentration of target analyte(s)

J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).

Concentrations within this range are estimated.

**Former Gasoline Distribution Terminal  
5335 River Road  
Tonawanda, New York  
Volatile Organic Compounds  
Table 6A: Groundwater Monitoring Wells**

Soil Sample ID	TOGs 1.1.1 NYS Groundwater Guidance Values	MW-1	MW-2R	MW-4	MW-005	MW-006	MW-007	MW-008	MW-9
Date		06/13/09	06/13/09	06/13/09	06/13/09	06/13/09	6/12/09	6/12/09	06/12/09
Matrix		Water	Water	Water	Water	Water	Water	Water	Water
2-Butanone	50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Methylnapthalene	4.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Isopropyltoluene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Methyl-2Pentadone	NL	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Acetone	50	1.8J	< 1.0	< 1.0	< 1.0	< 1.0	6.6	2.0J	< 1.0
Benzene	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon disulfide	NL	< 1.0	< 1.0	< 1.0	< 1.0	0.53J	0.53J	0.64J	< 1.0
Chlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	NL	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methylene Chloride	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methylcyclohexane	NL	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MtBE	NL	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Butylbenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-propylbenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Xylenes, Total	5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

NOTES:

All sample analysis performed by Test America (Amherst, New York) in May 2009.

All units are micrograms per Liter (µg/L)

NL - Analyte not listed in TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations

J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).  
Concentrations within this range are estimated.

**Former Gasoline Distribution Terminal  
5335 River Road  
Tonawanda, New York  
Semi-Volatile Organic Compounds  
Table 6B: Groundwater Monitoring Wells**

Soil Sample ID	TOGs 1.1.1 NYS Groundwater Guidance Values	MW-1	MW-2R	MW-4	MW-005	MW-006	MW-007	MW-008	MW-9	DUP-13
Date		06/13/09	06/13/09	06/13/09	06/13/09	06/13/09	6/12/09	6/12/09	06/12/09	06/13/09
Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water
2,4 Di MethylPhenol	50	< 9.5	< 9.4	< 9.5	< 9.4	< 9.9	< 9.4	< 11	< 9.6	< 9.4
2-Methylnaphthalene	4.2	< 9.5	< 9.4	< 9.5	< 9.4	< 9.9	< 9.4	< 11	< 9.6	< 9.4
Acenaphthene	20	< 9.5	< 9.4	< 9.5	< 9.4	< 9.9	< 9.4	< 11	< 9.6	< 9.4
Acetophenone	NL	< 9.5	< 9.4	< 9.5	< 9.4	< 9.9	< 9.4	< 11	< 9.6	< 9.4
Anthracene	50	< 9.5	< 9.4	< 9.5	< 9.4	< 9.9	< 9.4	< 11	< 9.6	< 9.4
Benzaldehyde	NL	< 48	< 47	< 48	< 47	< 50	< 47	< 57	< 48	< 47
Benzo(a)anthracene	0.002	< 9.5	< 9.4	< 9.5	< 9.4	< 9.9	< 9.4	< 11	< 9.6	< 9.4
Benzo(a)pyrene	ND	< 9.5	< 9.4	< 9.5	< 9.4	< 9.9	< 9.4	< 11	< 9.6	< 9.4
Benzo(b)fluoranthene	0.002	< 9.5	< 9.4	< 9.5	< 9.4	< 9.9	< 9.4	< 11	< 9.6	< 9.4
Benzo(g,h,i)perylene	ND	< 9.5	< 9.4	< 9.5	< 9.4	< 9.9	< 9.4	< 11	< 9.6	< 9.4
Benzo(k)fluoranthene	0.002	< 9.5	< 9.4	< 9.5	< 9.4	< 9.9	< 9.4	< 11	< 9.6	< 9.4
Biphenyl	5	< 9.5	< 9.4	< 9.5	< 9.4	< 9.9	< 9.4	< 11	< 9.6	< 9.4
Bis-(2 chloroethoxy) methane	5	< 9.5	< 9.4	< 9.5	< 9.4	< 9.9	< 9.4	< 11	< 9.6	< 9.4
Bis-(2-ethylhexyl) phthalate	5	< 9.5	< 9.4	< 9.5	< 9.4	< 9.9	< 9.4	3.1J	< 9.6	< 9.4
Carbazole	NL	< 4.8	< 4.7	< 4.8	< 4.7	< 5.0	< 4.7	< 5.7	< 4.8	< 4.7
Chrysene	0.002	< 9.5	< 9.4	< 9.5	< 9.4	< 9.9	< 9.4	< 11	< 9.6	< 9.4
Dibenzo(a,h)anthracene	NL	< 9.5	< 9.4	< 9.5	< 9.4	< 9.9	< 9.4	< 11	< 9.6	< 9.4
Dibenzofuran	NL	< 9.5	< 9.4	< 9.5	< 9.4	< 9.9	< 9.4	< 11	< 9.6	< 9.4
Diethyl phthalate	50	< 9.5	< 9.4	< 9.5	< 9.4	< 9.9	< 9.4	< 11	< 9.6	< 9.4
Di-n-butyl-phthalate	50	< 9.5	< 9.4	< 9.5	< 9.4	< 9.9	< 9.4	< 11	< 9.6	< 9.4
Di-n-octyl phthalate	50	< 9.5	< 9.4	< 9.5	< 9.4	< 9.9	< 9.4	< 11	< 9.6	< 9.4
Fluoranthene	50	< 9.5	< 9.4	< 9.5	< 9.4	< 9.9	< 9.4	< 11	< 9.6	< 9.4
Fluorene	50	< 9.5	< 9.4	< 9.5	< 9.4	< 9.9	< 9.4	< 11	< 9.6	< 9.4
Indeno(1,2,3-cd)pyrene	0.002	< 9.5	< 9.4	< 9.5	< 9.4	< 9.9	< 9.4	< 11	< 9.6	< 9.4
Naphthalene	10	< 9.5	< 9.4	< 9.5	< 9.4	< 9.9	< 9.4	< 11	< 9.6	< 9.4
N-nitrosodiphenylamine	50	< 9.5	< 9.4	< 9.5	< 9.4	< 9.9	< 9.4	< 11	< 9.6	< 9.4
Phenanthrene	50	< 9.5	< 9.4	< 9.5	< 9.4	< 9.9	< 9.4	< 11	< 9.6	< 9.4
Pyrene	50	< 9.5	< 9.4	< 9.5	< 9.4	< 9.9	< 9.4	< 11	< 9.6	< 9.4

**NOTES:**

All sample analysis performed by Test America (Amherst, New York) in May 2009.

All units are micrograms per Liter (µg/L)

NL - Analyte not listed in TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations

J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).

Concentrations within this range are estimated.

**Former Gasoline Distribution Terminal  
5335 River Road  
Tonawanda, New York  
Pesticides**

**Table 6C: Groundwater Monitoring Wells**

Soil Sample ID	TOGs 1.1.1 NYS Groundwater Guidance Values	MW-1	MW-2R	MW-4	MW-005	MW-006	MW-007	MW-008	MW-9	DUP-13
Date		06/13/09	06/13/09	06/13/09	06/13/09	06/13/09	6/12/09	6/12/09	06/12/09	06/13/09
Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water
4,4'-DDT (2C)	0.3	< 0.048	< 0.047	< 0.047	< 0.047	< 0.050	< 0.047	< 0.053	< 0.048	< 0.047
4-4'-DDD (2C)	0.2	< 0.048	< 0.047	< 0.047	< 0.047	< 0.050	< 0.047	< 0.053	< 0.048	< 0.047
4-4'-DDE (2C)	0.2	< 0.048	< 0.047	< 0.047	< 0.047	< 0.050	< 0.047	< 0.053	< 0.048	< 0.047
Aldrin (2C)	ND	< 0.048	< 0.047	< 0.047	< 0.047	< 0.050	< 0.047	< 0.053	< 0.048	< 0.047
alpha-BHC (2C)	NL	< 0.048	< 0.047	< 0.047	< 0.047	< 0.050	< 0.047	0.028J	< 0.048	< 0.047
alpha-Chlordane (2C)	NL	< 0.048	< 0.047	< 0.047	< 0.047	< 0.050	< 0.047	< 0.053	< 0.048	< 0.047
beta-BHC (2C)	NL	< 0.048	< 0.047	< 0.047	< 0.047	< 0.050	< 0.047	< 0.053	< 0.048	< 0.047
Chlordane (2C)	0.05	< 0.048	< 0.047	< 0.047	< 0.047	< 0.050	< 0.047	< 0.053	< 0.048	< 0.047
delta-BHC (2C)	NL	< 0.048	< 0.047	< 0.047	< 0.047	< 0.050	< 0.047	< 0.053	< 0.048	< 0.047
Dieldrin (2C)	0.004	< 0.048	< 0.047	< 0.047	< 0.047	< 0.050	< 0.047	< 0.053	< 0.048	< 0.047
Endosulfan I (2C)	0.009	< 0.048	< 0.047	< 0.047	0.068	< 0.050	< 0.047	< 0.053	< 0.048	0.056
Endosulfan II (2C)	0.009	< 0.048	< 0.047	< 0.047	< 0.047	< 0.050	< 0.047	< 0.053	< 0.048	< 0.047
Endosulfan Sulfate (2C)	0.009	< 0.048	< 0.047	< 0.047	< 0.047	< 0.050	< 0.047	< 0.053	< 0.048	< 0.047
Endrin (2C)	ND	< 0.048	< 0.047	< 0.047	< 0.047	< 0.050	< 0.047	< 0.053	< 0.048	< 0.047
Endrin aldehyde (2C)	5	< 0.048	< 0.047	< 0.047	< 0.047	< 0.050	< 0.047	< 0.053	< 0.048	< 0.047
Endrin Ketone (2C)	5	< 0.048	< 0.047	< 0.047	< 0.047	< 0.050	< 0.047	< 0.053	< 0.048	< 0.047
gamma BHC (Lindane) (2C)	5	< 0.048	< 0.047	< 0.047	< 0.047	< 0.050	< 0.047	< 0.053	< 0.048	< 0.047
gamma- Chlorodane (2C)	NL	< 0.048	< 0.047	< 0.047	0.042J	0.020	0.033J	0.021J	0.035J	0.024J
Heptachlor (2C)	0.04	< 0.048	< 0.047	< 0.047	< 0.047	< 0.050	< 0.047	< 0.053	< 0.048	< 0.047
Heptachlor epoxide (2C)	0.03	< 0.048	< 0.047	< 0.047	0.025J	< 0.050	< 0.047	< 0.053	< 0.048	< 0.047
Methoxychlor (2C)	35	< 0.048	< 0.047	< 0.047	< 0.047	< 0.050	< 0.047	< 0.053	< 0.048	< 0.047
Toxaphene (2C)	0.06	< 0.048	< 0.047	< 0.047	< 0.047	< 0.050	< 0.047	< 0.053	< 0.048	< 0.047

**NOTES:**

All sample analysis performed by Test America (Amherst, New York) in May 2009.

All units are micrograms per Liter (µg/L)

NL - Analyte not listed in TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations

J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).

Concentrations within this range are estimated.



**Former Gasoline Distribution Terminal  
5335 River Road  
Tonawanda, New York  
Metals  
Table 6E: Groundwater Monitoring Wells**

Soil Sample ID	TOGs 1.1.1 NYS Groundwater Guidance Values	MW-1	MW-2R	MW-4	MW-005	MW-006	MW-007	MW-008	MW-3
Date		06/13/09	06/13/09	06/13/09	06/13/09	06/13/09	6/12/09	6/12/09	06/12/09
Matrix		Water	Water	Water	Water	Water	Water	Water	Water
Aluminum	0.1	6.51	1.84	3.94	1.19	6.22	9.31	17.3	1.08
Antimony	0.003	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Arsenic	0.025	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Barium	1	0.180	0.0280	0.0975	0.0356	0.0867	0.154	0.173	0.119
Beryllium	0.003	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Cadmium	0.005	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0016	< 0.0010	< 0.0010	< 0.0010
Calcium	NA	149	209	102	95.8	237	73	295	43.4
Chromium	0.05	0.0062	< 0.0040	< 0.0040	< 0.0040	0.0138	0.0151	0.0357	< 0.0040
Cobalt	0.005	< 0.0040	< 0.0040	< 0.0040	< 0.0040	0.0074	< 0.0040	0.0047	< 0.0040
Copper	0.2	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0.0225	0.0115	0.0281	< 0.0100
Iron	0.3	6.06	1.88	3.39	1.03	11.6	970	22.8	1.05
Lead	0.025	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0053	0.0082	0.0182	< 0.0050
Magnesium	35	84.5	527D	97.1	316	656D	36.1	298	116
Manganese	0.3	0.752	0.430	0.0109	0.251	0.766	0.204	0.474	0.0391
Mercury	0.0007	< 0.0002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Nickel	0.1	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0.0156	< 0.0100	0.0178	< 0.0100
Potassium	NA	5.09	18.7	3.62	8.30	33.3	15.3	16.0	10.7
Selenium	0.01	< 0.0150	< 0.0150	< 0.0150	< 0.0150	< 0.0150	< 0.0150	< 0.0150	< 0.0150
Silver	0.05	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030
Sodium	20	13.0	230	16.1	128	203	64.3	180	52.1
Vanadium	0.014	0.0108	< 0.0050	0.0070	< 0.0050	0.0090	0.0168	0.0250	< 0.0050
Thallium	0.0005	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Zinc	2	0.0239	0.0134	0.0155	< 0.0100	0.0248	0.0323	0.0951	< 0.0100

**NOTES:**

All sample analysis performed by Test America (Amherst, New York) in May 2009.

All units are milligrams per Liter (mg/L)

NL - Analyte not listed in TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations

D - Dilution required for analysis.

<b>DUP-13</b>
<b>06/13/09</b>
<b>Water</b>
<b>1.64</b>
< 0.0200
< 0.0100
<b>0.0431</b>
< 0.0020
< 0.0010
<b>95.1</b>
< 0.0040
< 0.0040
< 0.0100
<b>1.54</b>
< 0.0050
<b>306</b>
<b>0.257</b>
< 0.002
< 0.0100
<b>9.03</b>
< 0.0150
< 0.0030
<b>123</b>
< 0.0050
< 0.0200
< 0.0100



**Former Gasoline Distribution Terminal  
5335 River Road  
Tonawanda, New York  
Polychlorinated Biphenyls  
Table 6D: Groundwater Monitoring Wells**

Soil Sample ID	TOGs 1.1.1 NYS Groundwater	MW-1	MW-2R	MW-4	MW-005	MW-006	MW-007	MW-008	MW-9	DUP-13
Date		06/13/09	06/13/09	06/13/09	06/13/09	06/13/09	6/12/09	6/12/09	06/12/09	06/13/09
Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water
Aroclor-1016	0.09	< 0.48	< 0.47	< 0.47	< 0.47	< 0.50	< 0.47	< 0.53	< 0.48	< 0.47
Aroclor-1221	0.09	< 0.48	< 0.47	< 0.47	< 0.47	< 0.50	< 0.47	< 0.53	< 0.48	< 0.47
Aroclor-1232	0.09	< 0.48	< 0.47	< 0.47	< 0.47	< 0.50	< 0.47	< 0.53	< 0.48	< 0.47
Aroclor-1242	0.09	< 0.48	< 0.47	< 0.47	< 0.47	< 0.50	< 0.47	< 0.53	< 0.48	< 0.47
Aroclor-1248	0.09	< 0.48	< 0.47	< 0.47	< 0.47	< 0.50	< 0.47	< 0.53	< 0.48	< 0.47
Aroclor-1254	0.09	< 0.48	< 0.47	< 0.47	< 0.47	< 0.50	< 0.47	< 0.53	< 0.48	< 0.47
Aroclor-1260	0.09	< 0.48	< 0.47	< 0.47	< 0.47	< 0.50	< 0.47	< 0.53	< 0.48	< 0.47

**NOTES:**

All sample analysis performed by Test America (Amherst, New York) in May 2009.

All units are micrograms per Liter (µg/L)

NL - Analyte not listed in TOGS (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations

**Table 7A: UST's  
Volatile Organic Compounds  
Riverview Industrial Center  
5335 River Road  
Tonawanda, NY**

Soil Sample ID	T-1 NAPL	T-2 NAPL	T-3 NAPL	T-4 NAPL	T-5 NAPL
Date	05/19/09	05/19/09	05/19/09	05/19/09	05/19/09
Matrix	Waste	Waste	Waste	Waste	Waste
Benzene (µg/kg)	8600	< 9700	28000	5300 J	< 4800
Cyclohexane (µg/kg)	74000	< 9700	52000	< 9700	< 4800
Ethylbenzene (µg/kg)	3500 J	< 9700	90000	350000	63000
Isopropylbenzene (µg/kg)	24000	12000	31000	59000	58000
Methylcyclohexane (µg/kg)	240000	120000	160000	18000	< 4800
Toluene (µg/kg)	86000 B	12000 B	140000 B	11000 B	7800 B
Xylenes, Total (µg/kg)	750000	860000	420000	1600000	410000

**NOTES:**

All sample analysis performed by Test America (Amherst, New York) in May 2009.

All units are micrograms per kilogram (µg/kg) wet

B - Analyte was detected in the associated Method Blank

J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.

**Table 7B: UST's  
Semi-Volatile Organic Compounds  
Riverview Industrial Center  
5335 River Road  
Tonawanda, NY**

Soil Sample ID	T-1 NAPL	T-1 NAPL (RE-1)	T-2 NAPL	T-3 NAPL	T-3 NAPL (RE-1)	T-4 NAPL	T-5 NAPL	T-5 NAPL (RE-1)
Date	05/19/09	05/19/09	05/19/09	05/19/09	05/19/09	05/19/09	05/19/09	05/19/09
Matrix	Waste	Waste	Waste	Waste	Waste	Waste	Waste	Waste
<i>2,4 Di MethylPhenol (µg/kg)</i>	99000	< 780000	< 36000	79000	< 780000	< 390000	100000	< 850000
<i>2-Methylnaphthalene (µg/kg)</i>	4300000	4100000 D08	79000	4800000	5400000 D08	5800000 D02	5500000	5400000 D08
<i>Acenaphthene (µg/kg)</i>	220000	< 780000	< 36000	< 39000	< 780000	< 390000	360000	< 850000
<i>Benzo(a)pyrene (µg/kg)</i>	< 39000	< 780000	< 36000	< 39000	< 780000	< 390000	< 42000	< 850000
<i>Biphenyl (µg/kg)</i>	510000	< 780000	< 36000	310000	< 780000	< 390000	530000	< 850000
<i>Dibenzofuran (µg/kg)</i>	290000	< 780000	< 36000	< 39000	< 780000	< 390000	360000	< 850000
<i>Fluorene (µg/kg)</i>	430000	< 780000	< 36000	340000	< 780000	550000 D02	500000	< 850000
<i>Naphthalene (µg/kg)</i>	750000	< 780000	< 36000	1300000	1400000 D08	2000000 D02	1600000	1500000 D08
<i>Phenanthrene (µg/kg)</i>	990000	< 780000	< 36000	910000	910000 D08	1300000 D02	2200000	1800000 D08
<i>Pyrene (µg/kg)</i>	110000	< 780000	< 36000	< 39000	< 780000	< 390000	82000	< 850000

**NOTES:**

All sample analysis performed by Test America (Amherst, New York) in May 2009.

Units for waste are micrograms per kilogram (µg/kg) wet

D02 -Dilution required due to sample matrix effects.

D08 - Dilution required due to high concentration of target analyte(s)

**Table 7C: UST's  
Pesticides  
Riverview Industrial Center  
5335 River Road  
Tonawanda, NY**

Soil Sample ID	T-1 NAPL	T-2 NAPL	T-3 NAPL	T-4 NAPL*	T-4 NAPL	T-5 NAPL
Date	05/19/09	05/19/09	05/19/09	05/18/09	05/19/09	05/19/09
Matrix	Waste	Waste	Waste	Water	Waste	Waste
<i>4,4'-DDD</i>	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
<i>4,4'-DDE</i>	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
<i>4,4'-DDT</i>	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
<i>Aldrin</i>	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
<i>alpha-BHC</i>	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
<i>alpha-Chlordane</i>	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
<i>beta-BHC</i>	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
<i>delta-BHC</i>	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
<i>Dieldrin</i>	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
<i>Endosulfan I</i>	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
<i>Endosulfan II</i>	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
<i>Endosulfan sulfate</i>	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
<i>Endrin</i>	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
<i>Endrin aldehyde</i>	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
<i>Endrin ketone</i>	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
<i>gamma-BHC (Lindane)</i>	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
<i>gamma-Chlorodane</i>	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
<i>Heptachlor</i>	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
<i>Heptachlor epoxide</i>	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
<i>Methoxychlor</i>	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
<i>Toxaphene</i>	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed

**NOTES:**

Pesticides were not analyzed for NAPL samples

**Table 7D: UST's  
PCB's  
Riverview Industrial Center  
5335 River Road  
Tonawanda, NY**

<b>Soil Sample ID</b>	<b>T-1 NAPL</b>	<b>T-2 NAPL</b>	<b>T-3 NAPL</b>	<b>T-4 NAPL</b>	<b>T-5 NAPL</b>
<b>Date</b>	<b>05/19/09</b>	<b>05/19/09</b>	<b>05/19/09</b>	<b>05/19/09</b>	<b>05/19/09</b>
<b>Matrix</b>	<b>Waste</b>	<b>Waste</b>	<b>Waste</b>	<b>Waste</b>	<b>Waste</b>
<i>Aroclor-1016</i>	< 2.3	< 1.4	< 1.8	< 1.9	< 2.3
<i>Aroclor-1221</i>	< 2.3	< 1.4	< 1.8	< 1.9	< 2.3
<i>Aroclor-1232</i>	< 2.3	< 1.4	< 1.8	< 1.9	< 2.3
<i>Aroclor-1242</i>	< 2.3	< 1.4	< 1.8	< 1.9	< 2.3
<i>Aroclor-1248</i>	< 2.3	< 1.4	< 1.8	< 1.9	< 2.3
<i>Aroclor-1254</i>	< 2.3	< 1.4	< 1.8	< 1.9	< 2.3
<i>Aroclor-1260</i>	< 2.3	< 1.4	< 1.8	< 1.9	< 2.3

**NOTES:**

**All sample analysis performed by Test America (Amherst, New York) in May 2009.**

**Units for waste are milligrams per kilogram (mg/kg)**



**Table 7E: UST's  
Metals  
Riverview Industrial Park  
5335 River Road  
Tonawanda, NY**

<b>Soil Sample ID</b>	<b>T-1 NAPL</b>	<b>T-2 NAPL</b>	<b>T-3 NAPL</b>	<b>T-4 NAPL</b>	<b>T-5 NAPL</b>
<b>Date</b>	<b>05/19/09</b>	<b>05/19/09</b>	<b>05/19/09</b>	<b>05/19/09</b>	<b>05/19/09</b>
<b>Matrix</b>	<b>Waste</b>	<b>Waste</b>	<b>Waste</b>	<b>Waste</b>	<b>Waste</b>
<i>Arsenic (mg/kg)</i>	0.2 J	< 1.9	< 1.9	< 1.9	< 1.9
<i>Barium (mg/kg)</i>	< 0.461	0.051 J	< 0.470	24.8	< 0.469
<i>Cadmium (mg/kg)</i>	< 0.184	0.057 J	< 0.188	0.174 J	< 0.188
<i>Calcium (mg/kg)</i>	< 46.1	< 48.0	< 47.0	23.8 J	< 46.9
<i>Chromium (mg/kg)</i>	< 0.461	< 0.480	< 0.470	3.09	< 0.469
<i>Copper (mg/kg)</i>	0.1 JB	< 1.0	0.4 JB	0.6 JB	0.5 JB
<i>Iron (mg/kg)</i>	< 9.2	5.4 J	< 9.4	44.5	< 9.4
<i>Lead (mg/kg)</i>	0.2 J	0.4 J	0.1 J	46.6	< 0.9
<i>Manganese (mg/kg)</i>	< 0.2	0.1 J	< 0.2	0.4	< 0.2
<i>Nickel (mg/kg)</i>	< 0.461	< 0.480	< 0.470	0.270 J	< 0.469
<i>Vanadium (mg/kg)</i>	< 0.461	< 0.480	< 0.470	0.408 J	< 0.469
<i>Zinc (mg/kg)</i>	0.5 J	< 1.9	< 1.9	178	< 1.9

**NOTES:**

All sample analysis performed by Test America (Amherst, New York) in May 2009.

All units are milligrams per kilogram (µg/kg) wet

B - Analyte was detected in the associated Method Blank

J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.

**Table 7F: UST's  
Material Composition Identification  
Riverview Industrial Center  
5335 River Road  
Tonawanda, NY**

<b>Soil Sample ID</b>	<b>T-1 NAPL</b>	<b>T-2 NAPL</b>	<b>T-3 NAPL</b>	<b>T-4 NAPL</b>	<b>T-5 NAPL</b>
<b>Date</b>	<b>5/19/09</b>	<b>5/19/09</b>	<b>05/19/09</b>	<b>5/19/2009</b>	<b>5/19/2009</b>
<b>Matrix</b>	<b>Waste</b>	<b>Waste</b>	<b>Waste</b>	<b>Waste</b>	<b>Waste</b>
<i><b>Fuel Oil #2</b></i>	1000000D	< 10	990000D	< 1400	< 1300
<i><b>Fuel Oil #4</b></i>	< 1200	10000	< 1400	890000D	1100000
<i><b>Fuel Oil # 6</b></i>	< 1200	< 10	< 1400	< 1400	< 1300
<i><b>Gasoline</b></i>	< 480	< 4.2	< 560	< 560	< 510
<i><b>Kerosene</b></i>	< 1200	< 10	< 1400	< 1400	<1300
<i><b>Motor Oil</b></i>	< 2400	< 21	< 2800	< 2800	< 2600
<i><b>Other - 1</b></i>	< 1200	< 10	< 1400	< 1400	< 1300

**\*Units for waste are milligrams per kilogram (mg/kg)**

**Table 8A: Oil/Water Separator & Site Sewer  
Volatile Organic Compounds  
Riverview Industrial Center  
5335 River Road  
Tonawanda, New York**

Soil Sample ID	TOGs 1.1.1 Water Guidance Values for Ambient and Class D	OWS-1	MH-1	MH-1	MH-2
Date		05/18/09	05/15/2009	5/21/2009	5/19/2009
Time		11:55	10:30	9:30	15:00
Matrix		Water	Water	Water	Water
2-Butanone	50	< 5.0	< 5.0	< 5.0	< 5.0
2-Methylnaphthalene	42	< 1.0	< 1.0	< 1.0	< 1.0
4-Isopropyltoluene	5	< 1.0	< 1.0	< 1.0	< 1.0
4-Methyl-2Pentadone	NL	< 5.0	< 5.0	< 5.0	< 5.0
Acetone	50	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	10	< 1.0	< 1.0	< 1.0	< 1.0
Carbon DiSulfide	NL	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	400	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	NL	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	5	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	23	< 1.0	< 1.0	< 1.0	< 1.0
Methylene Chloride	200	< 1.0	< 1.0	< 1.0	< 1.0
Methylcyclohexane	NL	< 1.0	< 1.0	< 1.0	< 1.0
MtBE	NL	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	10	< 1.0	< 1.0	< 1.0	< 1.0
n-Butylbenzene	5	< 1.0	< 1.0	< 1.0	< 1.0
n-propylbenzene	5	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	5	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	5	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	480	< 1.0	< 1.0	< 1.0	< 1.0
Xylenes, Total	5	< 2.0	< 2.0	< 2.0	< 2.0

**NOTES:**

All sample analysis performed by Test America (Amherst, New York) in May 2009.

Units for liquid are micrograms per Liter (µg/L)

**Table 8B: Oil/Water Separator & Site Sewer  
Semi - Volatile Organic Compounds  
Riverview Industrial Center  
5335 River Road  
Tonawanda, New York**

Soil Sample ID	TOGs 1.1.1 Water Guidance Values for Ambient and Class D	OWS-1	OWS-1	MH-1	MH-1	MH-2	MECH-PIT
Date		05/18/09	05/21/09	05/15/2009	5/21/2009	5/19/2009	5/18/2009
Sample interval (feet)		11:55	9:00	10:30	9:30	15:00	10:30
Matrix		Water	Water	Water	Water	Water	Water
Benzo(a)anthracene	0.23	< 9.9	< 10	1.7J	< 9.6	< 9.4	< 13.0
Benzo(a)pyrene	0.0012	< 9.9	< 10	2.5J	< 9.6	< 9.4	< 13.0
Benzo(b)fluoranthene	0.002	< 9.9	< 10	3.3J	< 9.6	< 9.4	< 13.0
Bis-(2 ethylhexyl) phthalate	5	< 9.9	< 10	< 11	< 9.6	< 9.4	2.9B,J
Carbazole	NL	< 5.0	< 2.5	0.36J	< 4.8	< 4.7	< 6.5
Chrysene	0.002	< 9.9	< 10	2.6J	< 9.6	< 9.4	< 13.0
Fluoranthene	50	< 9.9	< 10	5.4J	< 9.6	< 9.4	< 13.0
Phenanthrene	45	< 9.9	< 10	2.3J	< 9.6	< 9.4	< 13.0
Pyrene	42	< 9.9	< 10	4.2J	< 9.6	< 9.4	< 13.0

**NOTES:**

All sample analysis performed by Test America (Amherst, New York) in May 2009.

Units for liquid are micrograms per Liter (µg/L)

B - Analyte was detected in the associated Method Blank

J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).

Concentrations within this range are estimated.

**Table 8C: Oil/Water Separator & Site Sewer  
Pesticides  
Riverview Industrial Center  
5335 River Rd.  
Tonawanda, New York**

Soil Sample ID	TOGs 1.1.1 Water Guidance Values for Ambient and Class D	OWS-1	MH-1
Date		05/21/09	5/21/2009
Time		9:00	9:30
Matrix		Water	Water
4,4'-DDD	1x10 <sup>-5</sup>	< 0.050	< 0.067
4-4'-DDE	1x10 <sup>-5</sup>	< 0.050	< 0.067
4-4'-DDT	1x10 <sup>-5</sup>	< 0.050	< 0.067
Aldrin	0.001	< 0.050	< 0.067
alpha-BHC	NL	< 0.050	< 0.067
alpha-Chlordane	NL	< 0.050	< 0.067
delta-BHC (2C)	NL	< 0.050	< 0.067
Dieldrin	0.001	< 0.050	< 0.067
Endosulfan I	0.22	< 0.050	< 0.067
Endosulfan II	0.22	< 0.050	< 0.067
Endosulfan Sulfate	0.22	< 0.050	< 0.067
Endrin	0.002	< 0.050	< 0.067
Endrin aldehyde	5	< 0.050	< 0.067
Endrin ketone	5	< 0.050	< 0.067
gamma BHC (Lindane)	ND	< 0.050	< 0.067
gamma Chlorodane	5	0.025J	0.033J
Heptachlor	2x10 <sup>-4</sup>	< 0.050	< 0.067
Heptachlor epoxide	3x10 <sup>-4</sup>	< 0.050	< 0.067
Methoxychlor	35	< 0.050	< 0.067
Toxaphene	6x10 <sup>-6</sup>	< 0.50	< 0.67

**NOTES:**

All sample analysis performed by Test America (Amherst, New York) in May 2009.

Units for liquid are micrograms per Liter (µg/L)

J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or  
Concentrations within this range are estimated.

**Table 8D: Oil/Water Separator & Site Sewer  
PCB's  
Riverview Industrial Center  
5335 River Rd.  
Tonawanda, New York**

Soil Sample ID	TOGs 1.1.1 Water Guidance Values for	OWS-1	OWS-1	MH-1	MH-1	MH-2	MECH-PIT
Date		05/18/09	05/21/09	05/15/2009	5/21/2009	5/19/2009	5/18/2009
Depth (ft)		11:55	9:00	10:30	9:30	15:00	10:30
Matrix		Water	Water	Water	Water	Water	Water
Aroclor-1016	1x10 <sup>-6</sup>	< 0.47	< 0.52	< 0.60	< 0.67	< 0.47	< 0.60
Aroclor-1221	1x10 <sup>-6</sup>	< 0.47	< 0.52	< 0.60	< 0.67	< 0.47	< 0.60
Aroclor-1232	1x10 <sup>-6</sup>	< 0.47	< 0.52	< 0.60	< 0.67	< 0.47	< 0.60
Aroclor-1242	1x10 <sup>-6</sup>	< 0.47	< 0.52	< 0.60	< 0.67	< 0.47	< 0.60
Aroclor-1248	1x10 <sup>-6</sup>	< 0.47	< 0.52	< 0.60	< 0.67	< 0.47	< 0.60
Aroclor-1254	1x10 <sup>-6</sup>	< 0.47	< 0.52	< 0.60	< 0.67	< 0.47	< 0.60
Aroclor-1260	1x10 <sup>-6</sup>	< 0.47	< 0.52	0.33J	< 0.67	< 0.47	< 0.60

**NOTES:**

All sample analysis performed by Test America (Amherst, New York) in May 2009.

Units for liquid are micrograms per Liter (µg/L)

J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).

Concentrations within this range are estimated.

**Table 8E: Oil/Water Separator & Site Sewer  
Metals  
Riverview Industrial Center  
5335 River Rd.  
Tonawanda, New York**

Soil Sample ID	TOGs 1.1.1 Water Guidance Values for Ambient and Class D	OWS-1	MH-1	MH-1	MH-2	MECH-PIT
Date		05/18/09	05/15/2009	5/21/2009	5/19/2009	5/18/2009
Depth (ft)		11:55	10:30	9:30	15:00	10:30
Matrix		Water	Water	Water	Water	Water
Aluminum	0.1	< 0.200	2.97	0.267	0.351	< 0.200
Barium	1	0.0288	0.0969	0.0287	0.0282	0.0485
Cadmium	0.01	< 0.0010	0.0021	< 0.0010	< 0.0010	< 0.0010
Calcium	NL	47.2	92.2	56.6	45.0	76.4
Chromium	0.05	< 0.0040	0.0068	< 0.0040	< 0.0040	0.130
Copper	1	< 0.0100	0.283	< 0.0100	< 0.050	0.0114
Iron	0.3	0.209	3.75	0.377	0.519	0.667
Lead	0.05	< 0.0050	0.0477	< 0.0050	< 0.0050	0.0743
Magnesium	35	14.1	16.1	15.5	13.2	9.61
Manganese	0.6	0.154	0.588	0.335	0.314	0.0557
Potassium	NL	1.50	3.90	1.36	1.27	61.3
Sodium	NL	35.6	201	38.3	36.0	174
Thallium	0.19	< 0.0200	0.0085	< 0.0200	< 0.0200	< 0.0200
Zinc	5	< 0.0100	0.424	< 0.0100	< 0.0100	0.259

**NOTES:**

All sample analysis performed by Test America (Amherst, New York) in May 2009.

Units for liquid are milligrams per Liter (mg/L)

**Table 9A: Sediment Samples & Catch Basin  
Volatile Organic Compounds  
Riverview Industrial Center  
5335 River Road  
Tonawanda, NY**

Soil Sample ID	Part 375 Unrestricted Use	SED-2	SED-3-OF	SED-4	SED-5	SED-6	SS-1
Date		05/13/09	05/18/09	05/18/09	5/18/2009	05/18/09	5/13/2009
Time		TNR*	11:45	12:00	14:00	14:30	11:40
Matrix		Solid	Solid	Solid	Solid	Solid	Solid
Acetone (µg/kg)	50	79	< 16	< 16	< 7.8	< 28	14J
Benzene (µg/kg)	60	6.6J	< 16	< 16	5.0J	< 28	< 6.4
Carbon DiSulfide (µg/kg)	NL	< 10	< 16	< 16	< 7.8	< 28	1.9
Chlorobenzene (µg/kg)	1100	5.7J	< 16	< 16	< 7.8	< 28	< 6.4
Cyclohexane (µg/kg)	NL	35	< 16	< 16	< 7.8	44D04	< 6.4
Ethylbenzene (µg/kg)	1000	52	< 16	< 16	< 7.8	< 28	< 6.4
Isopropylbenzene (µg/kg)	NL	9.2J	< 16	< 16	< 7.8	< 28	< 6.4
Methylcyclohexane (µg/kg)	700	35	< 16	< 16	< 7.8	27D04,J	< 6.4
Toluene (µg/kg)	700	50B	< 16	< 16	< 7.8	< 28	< 6.4
Xylenes, Total (µg/kg)	260	220	< 31	5.2J	9.1J	29D04,J	< 13

**NOTES:**

All sample analysis performed by Test America (Amherst, New York) in May 2009.

All units are micrograms per kilogram (µg/kg)

NL - Analyte not listed in 6 NYCRR Part 375 Environmental Remediation Programs Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives.

B - Analyte was detected in the associated Method Blank

J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).

Concentrations within this range are estimated.

D04 -Dilution required due to high levels of non-target compounds

\* Time not recorded on COC.



**Table 9B: Sediment Samples & Catch Basin**  
**Semi-Volatile Organic Compounds**  
**Riverview Industrial Center**  
**5335 River Road**  
**Tonawanda, NY**

Soil Sample ID	Part 375 Unrestricted Use	SED-2	SED-3-OF	SED-4	SED-5	SED-6	SS-1
Date		05/13/09	5/18/2009	05/185/09	5/18/2009	05/18/09	5/13/2009
Time		TNR*	11:45	12:00	14:00	14:30	11:40
Matrix		Solid	Solid	Solid	Solid	Solid	Solid
2,4 Di Methylphenol (µg/kg)	NL	< 73000	< 5400	< 5500	< 1400	< 9700	170J
2-Methylnaphthalene (µg/kg)	NL	3400 D02,J	< 5400	< 5500	< 1400	< 9700	< 220
Acenaphthene (µg/kg)	20000	8000 D02,J	< 5400	< 5500	< 1400	< 9700	< 220
Anthracene (µg/kg)	100000	13000 D02,J	< 5400	290 D02,J	< 1400	< 9700	< 220
Benzo(a)anthracene (µg/kg)	1000	71000 D02,J	< 5400	1200 D02,J	65 D02,J	< 9700	34J
Benzo(a)pyrene (µg/kg)	1000	74000 D02	< 5400	1000 D02,J	57 D02,J	400 D02,J	17J
Benzo(b)fluoranthene (µg/kg)	1000	100000 D02	< 5400	1100 D02,J	< 1400	500 D02,J	47J
Benzo(g,h,i)perylene (µg/kg)	100000	60000 D02,J	350D,J	1000 D02,J	62 D02,J	480 D02,J	21J
Benzo(k)fluoranthene (µg/kg)	800	29000 D02,J	< 5400	840 D02,J	< 1400	< 9700	21J
(µg/kg)	NL	< 73000	< 5400	< 5500	< 1400	3800 D02,J	160J
Carbazol (µg/kg)	NL	17000 D02,J	< 5400	< 5500	< 1400	< 9700	< 220
Chrysene (µg/kg)	1000	83000 D02	< 5400	1200 D02,J	< 1400	< 9700	67J
Dibenzo(a,h)anthracene (µg/kg)	330	14000 D02,J	< 5400	350 D02,J	< 1400	< 9700	< 220
Dibenzofuran (µg/kg)	NL	3600 D02,J	< 5400	< 5500	< 1400	< 9700	< 220
Fluoranthene (µg/kg)	100000	220000 D02	< 5400	2300 D02,J	68 D02,J	780 D02,J	150J
Fluorene (µg/kg)	30000	8300 D02,J	< 5400	< 5500	< 1400	< 9700	< 220
Indeno(1,2,3-cd)pyrene (µg/kg)	500	50000 D02,J	220D,J	840 D02,J	57 D02,J	< 9700	20J
Phenanthrene (µg/kg)	100000	130000 D02	< 5400	1200 D02,J	< 1400	< 9700	1000
Pyrene (µg/kg)	100000	170000 D02	< 5400	1800 D02,J	65 D02,J	780 D02,J	270

**NOTES:**

All sample analysis performed by Test America (Amherst, New York) in May 2009.

All units are micrograms per kilogram (µg/kg)

NL - Analyte not listed in 6 NYCRR Part 375 Environmental Remediation Programs Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives.

J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).

Concentrations within this range are estimated.

D02 -Dilution required due to sample matrix effects.

\* Time not recorded on COC.

**Table 9C: Sediment Samples & Catch Basin  
Pesticides  
Riverview Industrial Center  
5335 River Road  
Tonawanda, New York**

Soil Sample ID	Part 375 Unrestricted Use	SED-2	SED-3-OF	SED-4	SED-5	SED-6	SS-1
Date		05/13/09	05/18/09	5/18/2009	5/18/2009	05/18/09	05/13/09
Depth (ft)		TNR*	11:45	12:00	14:00	14:30	11:40
Matrix		Solid	Solid	Solid	Solid	Solid	Solid
4,4'-DDT (2C)	3.3	130QFL,D10,J	< 5.2	< 5.3	< 2.8	< 75	2.2QFL
delta-BHC (2C)	40	< 180	< 5.2	< 5.3	< 2.8	< 75	1.2QFL,J
Dieldrin	5	< 180	< 5.2	3.8QFL,J	< 2.8	< 75	< 2.2
Endosulfan I	2400	< 180	< 5.2	< 5.3	< 2.8	46D10,QSU,QFL,J	< 2.2
Endosulfan II	2400	<180	< 5.2	< 5.3	< 2.8	96D10,QSU,QFL	< 2.2
Endosulfan II (2C)	2400	<180	<5.2	<5.3	<2.8	<75	2.1QFL,J
Endrin (2C)	14	< 180	< 5.2	< 5.3	< 2.8	< 75	1.5QFL,J
gamma- Chlorodane (2C)	NL	< 180	< 5.2	< 5.3	< 2.8	< 75	0.070QFL,J,B

**NOTES:**

All sample analysis performed by Test America (Amherst, New York) in May 2009.

All units are micrograms per kilogram (µg/kg)

NL - Analyte not listed in 6 NYCRR Part 375 Environmental Remediation Programs Table 375-6.8(a): Unrestricted Use Soil Cleanup

B - Analyte was detected in the associated Method Blank

J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).

Concentrations within this range are estimated.

D10 - Dilution required due to sample color.

QFL - Florisil clean-up (EPA 3620) performed on extract.

QSU - Sulfur (EPA 3660) clean-up performed on extract.

\* Time not recorded on COC.

**Table 9D: Sediment Samples & Catch Basin**  
**PCB's**  
**Riverview Industrial Center**  
**5335 River Road**  
**Tonawanda, New York**

Soil Sample ID	Part 375 Unrestricted Use	SED-2	SED-3-OF	SED-4	SED-5	SED-6	SS-1
Date		05/13/09	05/18/09	5/18/09	5/18/2009	05/18/09	05/13/09
Time		TNR*	11:45	12:00	14:00	14:30	11:40
Matrix		Solid	Solid	Solid	Solid	Solid	Solid
Aroclor-1016	100	< 35	< 52	< 53	< 28	< 19	< 22
Aroclor-1221	100	< 35	< 52	< 53	< 28	< 19	< 22
Aroclor-1232	100	< 35	< 52	< 53	< 28	< 19	< 22
Aroclor-1242	100	< 35	< 52	< 53	< 28	< 19	< 22
Aroclor-1248	100	< 35	< 52	< 53	< 28	< 19	< 22
Aroclor-1254	100	< 35	< 52	< 53	< 28	< 19	< 22
Aroclor-1260	100	290QSU	< 52	46QSU,J	< 28	< 19	< 22

**NOTES:**

All sample analysis performed by Test America (Amherst, New York) in May 2009.

All units are micrograms per kilogram (µg/kg)

QSU - Sulfur (EPA 3660) clean-up performed on extract.

J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).

Concentrations within this range are estimated.

\* Time not recorded on COC.

**Table 9E: Sediment Samples & Catch Basin  
Metals  
Riverview Industrial Center  
5335 River Road  
Tonawanda, New York**

Soil Sample ID	Part 375 Unrestricted Use	SED-2	SED-3-OF	SED-4	SED-5	SED-6	SS-1
Date		05/13/09	05/18/09	05/18/09	5/18/2009	05/18/09	05/13/09
Time		TNR*	11:45	12:00	14:00	14:30	11:40
Matrix		Solid	Solid	Solid	Solid	Solid	Solid
Aluminum (mg/kg)	NL	18000	27700	18100	7540	2740	13900
Antimony (mg/kg)	NL	< 29.4	< 48.3	< 46.1	< 22.9	< 17.5	< 19.0
Arsenic (mg/kg)	13	5.0	10.8	18.9	9.0	1.7J	3.8
Barium (mg/kg)	350	162	237B	145B	119B	55.9B	114
Beryllium (mg/kg)	7.2	0.922	1.57	1.03	0.392	0.135J	0.713
Cadmium (mg/kg)	2.5	< 0.392	1.28	1.41	0.376	0.253	0.086J
Calcium (mg/kg)	NL	90700	84400B	59300B	9020B	6070B	14100
Chromium (mg/kg)	NL	32.0	50.9	29.4	11.2	5.23	17.7
Cobalt (mg/kg)	NL	16.0	24.6	15.5	7.40	2.14	10.6
Copper (mg/kg)	50	31.9	59.7	61.1	15.8	11.0	17.1
Iron (mg/kg)	NL	31200	48000B	41600B	18700B	5750B	24200
Lead (mg/kg)	63	17.3	50.7B	54.9B	13.2B	74.3B	14.4
Magnesium (mg/kg)	NL	29300	25900	25100	4730	1950	7120
Manganese (mg/kg)	1600	892	1740	954	4560D08	363	425
Mercury (mg/kg)	0.18	0.188	0.0653	0.101	0.0132J	0.0238	0.0205J
Nickel (mg/kg)	30	37.9	52.4	47.7	14.5	5.23	22.8
Potassium (mg/kg)	NL	3720	4130	2830	1040	466	1450
Selenium (mg/kg)	4	< 7.8	< 12.9	2.1J	< 6.1	< 4.7	< 5.1
Silver (mg/kg)	2	< 0.981	0.364J	0.397J	0.200J	< 0.583	< 0.633
Sodium (mg/kg)	NL	451	339J	371J	161J	78.7J	126J
Thallium (mg/kg)	NL	< 11.8	4.2J	3.4J	2.0J	0.7J	< 7.6
Vanadium (mg/kg)	NL	33.8	54.4	37.8	16.3	5.65	25.8
Zinc (mg/kg)	109	104B	302B	451B	138B	150B	67.4B

**NOTES:**

All sample analysis performed by Test America (Amherst, New York) in May 2009.

All units are milligrams per kilogram (mg/kg)

NL - Analyte not listed in 6 NYCRR Part 375 Environmental Remediation Programs Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives.

B - Analyte was detected in the associated Method Blank

D08 - Dilution required due to high concentration of target analyte(s)

J - Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL)  
Concentrations within this range are estimated.

\* Time not recorded on COC.

**APPENDIX A**  
**SOIL BORING LOGS**



Location Riverview Industrial Center

5335 River Road

Tonawanda NY

**SUBSURFACE LOG**

Soil Boring

Date 5/6/2009

Client/Job# NYSDEC

LOCATION# B-1

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-2'	0	Dark brown, fine to medium SAND and SILT. Dry; gun powder smell.	SW-SC
2-4'	0	Brown, CLAY; some coarse angular Gravel; little fine angular Gravel. Dry; no odor.	GC
4-10'	4-6' 0	Brown, Silty CLAY. Dry; no odor.	OH
	6-10' 0	Brown, Silty CLAY. Dry; no odor.	OH
		Bottom of boring 10	Sample Interval 0'-2' & 4'-6'



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/6/2009

Client/Job# NYSDEC

LOCATION# B-2

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1'	0	Brown, Silty CLAY; trace fine to coarse Sand. Saturated;no odor.	SP-SC
1-5'	0	Brown, Clayey SILT. Dry;no odor.	OH
5-10'	0	Brown, Clayey SILT. Moist; no odor.	OH
	0	Brown, Clayey SILT. Moist; no odor.	OH
		Bottom of boring 10	Sample Interval s 0'-2' & 4'-7'



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/6/2009

Client/Job# NYSDEC

LOCATION# B-3

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1'	0	Brown, Silty CLAY; trace fine to coarse Sand. Saturated; no odor.	OH
1-4'	0	Light Brown, Clayey SILT; trace (+) fine to medium Sand. Dry; no odor.	OH
4-8'	4-6' 0	Light Brown, Clayey SILT; trace (+) fine to medium Sand. Dry; no odor.	OH
6-10'	6-10' 0	Brown, CLAY; trace fine Sand. Dry; no odor.	CH
		Bottom of boring 10'	Sample Interval None





Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/6/2009

Client/Job# NYSDEC

LOCATION# B-4

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1'	0	Brown, fine to coarse SAND and SILT; Dry; no odor.	SP-SM
1-3'	0	Light brown, fine to medium SAND and SILT. Dry; no odor.	SP-SM
3-5'	0	Light brown, fine to medium SAND and SILT. Dry; no odor.	SP-SM
4-7'	0	Light brown, Clayey SILT; little fine to medium Sand. Dry; no odor.	OH
7-10'	0	Light brown, Silty fine to medium SAND. Dry; no odor.	OH
		Bottom of boring 10'	Sample Interval None



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

# **SUBSURFACE LOG**

Soil Boring

Date 5/6/2009

Client/Job# NYSDEC

LOCATION# B-5

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1'	0	Dark brown, fine to Coarse SAND and SILT; Some fine to medium Sand. Moist to wet; no odor.	SW-SM
1-4'	0	Light brown, Clayey SILT; Dry; no odor.	OH
4-5'	0	Brown, Silty CLAY; occasional coarse Gravel. Dry; no odor.	OH
		Bottom of boring 5'	Sample Interval None



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/6/2009

Client/Job# NYSDEC

LOCATION# B-6

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1'	0	Brown, Silty fine to medium SAND and CLAY. Moist to wet; no odor.	SW-SM-CL
1-5'	0	Brown, Clayey SILT; little fine to medium Sand. Moist; no odor.	OH
		Bottom of boring 5'	Sample Interval None



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**

Soil Boring

Date 5/6/2009

Client/Job# NYSDEC

LOCATION# B-7

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1'	0	Dark Brown, Silty fine to medium SAND (Topsoil). Wet; no odor.	SM
1-5'	0	Brown, Silty CLAY. Wet; no odor.	OH
		Bottom of boring 5'	Sample Interval 1-4'



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/6/2009

Client/Job# NYSDEC

LOCATION# B-8

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1	0	Dark Brown, very fine to medium Sandy very fine to medium GRAVEL (Topsoil); Moist to wet; no odor.	GW-GP
1-5'	0	Brown, Silty CLAY Dry, firm.	OH
		Bottom of boring 5'	Sample Interval None



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/6/2009

Client/Job# NYSDEC

LOCATION# B-9

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-6 inches	0	Black, organic TOP Soil; Wet, no odor.	PEAT
6in-5'	0	Brown, fine to medium Sandy CLAY; trace to occasional fine to medium rounded to semi rounded Gravel. Dry; no odor.	SP-SC
		Bottom of boring 5'	Sample Interval None



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/6/2009

Client/Job# NYSDEC

LOCATION# B-10

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1	0	TOP SOIL. Moist; no odor.	PEAT
1-5'	0	Brown, Silty fine to medium Sandy CLAY; trace (-) fine to very fine angular Gravel. Dry; no odor.	SM-SC
		Bottom of boring 5'	Sample Interval None



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/6/2009

Client/Job# NYSDEC

LOCATION# B-11

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1	0	Dark brown, Silty fine to medium SAND. Wet; no odor.	SM
1-5'	0	Light brown to brown, fine to medium SAND and CLAY; trace (+) Silt. Moist; no odor.	SC
		Bottom of boring 5'	Sample Interval None





Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/6/2009

Client/Job# NYSDEC

LOCATION# B-12

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-0.2'		Top Soil; organics. Wet; no odor.	PEAT
0.2-5'	0	Light brown to brown to red, CLAY; little very fine to fine Sand; little Silt. Dry; No odor.	CL
		Bottom of boring 5'	Sample Interval None



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/13/2009

Client/Job# NYSDEC

LOCATION# B-13

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-2		Light brown, SILTY fine to Medium SAND; Some Clay. Wet to saturated; no odor.	SM
1-5'	0	Brown-red, Silty CLAY; trace fine Sand. Wet to saturated; no odor.	OH
		Bottom of boring 5'	Sample Interval 0'-4'



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/13/2009

Client/Job# NYSDEC

LOCATION# B-14

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1	0	Dark Brown, coarse to fine SAND and SILT; little very fine to fine Gravel. Wet to saturated; no odor.	SM
1-2.75'	0	1-2.75 Brown, CLAY and very fine to fine Sand. Wet to saturated; no odor.	SC
2.75-5.0'	0	2.75-4 Red-brown, Clayey SILT; trace very fine to fine Sand. Wet to saturated; no odor.	OH
		Bottom of boring 5'	Sample Interval None



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/13/2009

Client/Job# NYSDEC

LOCATION# B-15

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1		Fill/Topsoil.	PEAT
1-4'	0	Brown, CLAY; with very fine to fine Sand. Dry; no odor.	SC
4-5'	0	Brown-red-gray, Silty CLAY; Some very fine to fine Sand; trace coarse angular Gravel. Moist; no odor.	OH
		Bottom of boring 5'	Sample Interval 0'-4'



Location Riverview Industrial Center

5335 River Road

Tonawanda NY

**SUBSURFACE LOG**

Soil Boring

Date 5/13/2009

Client/Job# NYSDEC

LOCATION# B-16

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1		Fill/Topsoil.	PEAT
1-4'	0	Gray, Silty CLAY; Some very fine to fine Sand; trace coarse angular Gravel. Moist; no petroleum odor.	OH
4-5'	0	Brown-red-gray, Silty CLAY; Some very fine to fine Sand; trace coarse angular Gravel. Moist; no petroleum odor.	OH
		Bottom of boring 5'	Sample Interval 1-4'



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/13/2009

Client/Job# NYSDEC

LOCATION# B-17

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1		Grass and Topsoil.	
1-4'	0	Gray, Silty fine to medium SAND; occasional coarse Gravel. Moist; petroleum odor.	SM
4-5'	0	Brown-red-gray, Silty CLAY; Some very fine to fine Sand; trace coarse angular Gravel. Moist; petroleum odor.	OH
		Bottom of boring 5'	Sample Interval 1-4'



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/13/2009

Client/Job# NYSDEC

LOCATION# B-18

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1		Grass and Topsoil.	
1-4'	0	Gray, Silty fine to medium SAND; occasional coarse Gravel. Moist; petroleum odor.	SM
4-5'	0	Brown-red-gray, Silty CLAY; Some very fine to fine Sand; trace coarse angular Gravel. Moist; petroleum odor.	OH
		Bottom of boring 5'	Sample Interval None



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/13/2009

Client/Job# NYSDEC

LOCATION# B-19

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1	0	Fill, brown, fine to medium Sandy CLAY; trace organics; trace Clay nodules.	
1-4'	0	Gray, Silty fine to medium SAND; occasional coarse Gravel. Moist; petroleum odor.	SM
4-5'	0	Brown-red-gray, Silty CLAY; some very fine to fine Sand; trace coarse angular Gravel. Moist; petroleum odor.	OH
		Bottom of boring 5'	Sample Interval None





Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/13/2009

Client/Job# NYSDEC

LOCATION# B-20

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1	Not Collected	Fill, brown, fine to medium Sandy CLAY; trace organics; trace Clay nodules. 0	SW-SC
1-5'	0	Brown, Fine to medium Sandy CLAY; trace organics; trace Clay nodules. 0	SW-SC
		Bottom of boring 5'	Sample Interval None



Location Riverview Industrial Center

5335 River Road

Tonawanda NY

**SUBSURFACE LOG**

Soil Boring

Date 5/13/2009

Client/Job# NYSDEC

LOCATION#

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classif Symbc
0-1	Not Collected	Fill, brown, fine to medium Sandy CLAY; some Silt. Moist; no odor.	SW-
1-5'	0	Brown, fine to medium SAND and CLAY. Moist; no odor.	SW-
		Bottom of boring 5'	Sample Interval 4-5'

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Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/4/2009

Client/Job# NYSDEC

LOCATION# SB-1

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1	NC	Fill - subbase.	
1-2'	1000+	Black, CLAY; little (+) fine to medium Sand; Moist; strong petroleum odor.	CL
2-4'	204	Light brown, CLAY; little (+) fine to medium Sand; Moist; strong petroleum odor.	CL
4-6'	129	Brown, Clayey very fine to fine SAND; Moist to dry; strong petroleum odor.	SC
6-8'	47	6-7' brown, very fine to medium Sandy Silty CLAY; Dry; petroleum odor.	SM-SC
		7-8' brown, very coarse angular GRAVEL; Moist; petroleum odor.	GW
		Bottom of boring 8'	Sample Interval 1'-3'



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/4/2009

Client/Job# NYSDEC

LOCATION# SB-2

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1	Not Collected	Fill - subbase.	
1-2'	4.5	Brown, Silty SAND; trace very fine angular Gravel ; Moist; slight petroleum odor.	SM
2-5'	2.6	Brown, Silty CLAY; trace (+) very fine to fine Sand; Moist; slight petroleum odor.	OH
5-7'	0.1	Brown, Silty CLAY; trace (+) very fine to fine Sand; Moist; no odor.	OH
7-9'	0.1	Brown, Silty CLAY; trace (+) very fine to fine Sand; Dry; No odor.	OH
		Bottom of boring 9'	Sample Interval 1'-2'



Location Riverview Industrial Center  
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**SUBSURFACE LOG**  
Soil Boring

Date 5/4/2009

Client/Job# NYSDEC

LOCATION# SB-3

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1	0	Fill - subbase.	
1-3'	0	Brown, Silty fine SAND. Moist; no petroleum odor.	SM
3-5'	0	Brown, Silty CLAY; trace very fine to fine Sand. Dry; no odor.	OH
5-8'	5-6'		
	0	Brown, Clayey SILT; trace (-) very fine to fine Sand. Dry; no odor.	OH
	6-8'		
	0.1	Brown, Clayey SILT; trace (-) very fine to fine Sand. Dry; no odor.	OH
		Bottom of boring 8'	Sample Interval None



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
 Soil Boring

Date 5/4/2009

Client/Job# NYSDEC

LOCATION# SB-4

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1	0	Asphalt and subbase.	
1-3'	1-2' 0 2-3' 7.2	Brown, Clayey SILT; Trace very fine to fine Sand. Moist; no odor.	OH
3-5'	3.5	Brown, Clayey SILT; Trace very fine to fine Sand. Moist; no odor.	OH
5-8'	0.1	Brown, Clayey SILT; Trace very fine to fine Sand. Moist; no odor.	OH
		Bottom of boring 8'	Sample Interval None





Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/4/2009

Client/Job# NYSDEC

LOCATION# SB-5

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1	0	Asphalt and subbase.	
1-3'	75	Black-gray, Silty very fine to fine SAND. Moist; petroleum odor.	SM
3-5'	36	Black-gray, Silty very fine to fine SAND. Moist to wet; petroleum odor.	SM
5-8'	8	Brown-gray, Silty CLAY. Moist to slightly moist; petroleum odor.	OH
		Bottom of boring 8'	Sample Interval 1-3'



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/4/2009

Client/Job# NYSDEC

LOCATION# SB-6

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1	0	Asphalt and subbase.	
1-3'	9.2	Dark gray, Silty CLAY. Moist; SVOC petroleum odor.	OH
3-5'	8.1	Light gray, very fine to fine Sandy SILT. Moist; slight petroleum odor.	SM
5-7'	8.0	Brown-red; Silty CLAY. Moist to slightly moist; slight petroleum odor.	OH
7-9'	1.0	Light brown, Clayey SILT; trace (+) very fine to fine Sand. Dry; no petroleum odor.	OH
		Bottom of boring 9'	Sample Interval 1'-4'



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/4/2009

Client/Job# NYSDEC

LOCATION# SB-7

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1	0	Asphalt and subbase.	
1-3'	270	Brown, Clayey SILT; Some (-) very fine to fine Sand. Moist; petroleum odor.	OH
3-5'	160	Light gray, very fine to fine Sandy SILT. Moist; petroleum odor.	SM
5-7'	32	Light gray, very fine to fine Sandy SILT. Moist; petroleum odor.	SM
7-9'	10	Light gray, very fine to fine Sandy SILT. Moist; petroleum odor.	SM
		Bottom of boring 9'	Sample Interval 1'-3'



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/4/2009

Client/Job# NYSDEC

LOCATION# SB-8

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1	0	Asphalt and subbase	
1-2'	88	Brown, Silty CLAY; little very fine to fine Sand. Moist; Petroleum odor.	OH
2-4'	72	Light gray, very fine to fine Sandy SILT. Moist; petroleum odor.	SM
4-5'	11.5	Red, Silty CLAY; trace fine to medium Sand. Moist; sight petroleum odor.	OH
5-9'	10	Red, Silty CLAY; trace fine to medium Sand. Moist; sight petroleum odor.	OH
		Bottom of boring 9'	Sample Interval 1st 0'-4'   Second Sample 8D-5'-9'



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/4/2009

Client/Job# NYSDEC

LOCATION# SB-9

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1	0	Asphalt and subbase.	
1-3'	55	Brown, fine to medium Sandy CLAY; Moist; petroleum odor.	SP-SC
3-5'	45	Brown, Clayey SILT; some fine to medium Sand; Moist; petroleum odor.	OH
5'	10	Refusal at 5 feet.	
		Bottom of boring 5'	Sample Interval 1'-4'



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/4/2009

Client/Job# NYSDEC

LOCATION# SB-10

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1	0	Asphalt and subbase.	
1-3'	40	Brown, fine to medium Sandy CLAY; Moist; petroleum odor.	SW-SC
3-5'	140	Brown, Clayey SILT; some fine to medium Sand; Moist; petroleum odor.	OH
5-7'	0	Brown, Clayey SILT; some fine to medium Sand; Moist; no petroleum odor.	OH
7-9'		Brown, very coarse angular GRAVEL; Moist; no petroleum odor.	GP
		Bottom of boring 9'	Sample Interval None



Location Riverview Industrial Center  
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Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/4/2009

Client/Job# NYSDEC

LOCATION# SB-11

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1	0	Asphalt and subbase.	
1-5'	1-3' 0	Brown, CLAY; Some Silt trace fine to medium Sand. Moist; no petroleum odor.	CH
	3-6' 0	Brown, CLAY; Some Silt trace fine to medium Sand. Moist; no petroleum odor.	CH
		Bottom of boring 5'	Sample Interval 3'-5'



Location Riverview Industrial Center  
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Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/4/2009

Client/Job# NYSDEC

LOCATION# SB-12

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1	0	Asphalt and subbase.	
1-3'	355	Black, SILTY fine to medium SAND; Moist to wet; petroleum odor.	SM
3-5'	145	Black, SILTY fine to medium SAND; Moist; petroleum odor.	SM
5-7'	120	Brown, fine to medium SAND. Moist; petroleum odor.	SW
7-9'	65	Brown, fine to medium SAND. Moist; petroleum odor.	SW
9-10'	0	Brown, fine to medium SAND. Moist to dry; no petroleum odor.	SW
		Bottom of boring 10'	Sample Interval 1'-3'





Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/4/2009

Client/Job# NYSDEC

LOCATION# SB-13

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1	NC	Asphalt and subbase.	
1-4'	87	Gray, Silty CLAY; Some (+) fine Sand. Wet; petroleum odor.	CL
4-5'	1.7	Brown, fine to medium GRAVEL and SAND. Moist to wet; slight petroleum odor.	GP-SP
5-7'	0	Brown, CLAY; trace (-) fine Sand. Moist to dry; no petroleum odor.	CH
7-8'	0	Brown, CLAY; trace (-) fine Sand. Moist to dry; no petroleum odor.	CH
		Bottom of boring 8'	Sample Interval 1'-4'



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/4/2009

Client/Job# NYSDEC

LOCATION# SB-14

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1	NC	Asphalt and subbase.	
1-4'	60	Brown-gray, Silty fine to medium SAND. Wet; petroleum odor.	SP-SM
4-5'	0	Brown, fine to medium GRAVEL and SAND. Dry; no odor.	GP-SP
		Bottom of boring 5'	Sample Interval 1'-4'



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/4/2009

Client/Job# NYSDEC

LOCATION# SB-15

Depth (feet)	PID (ppm)	DESCRIPTION	Well Completion Data
0-1'	0	Asphalt.	
1-3'	0	Brown red, Silty CLAY and very fine to fine Sand. Dry; no odor.	SW-SM-SC
2.5-2.75'		Brown, very coarse to fine SAND. Dry; no odor.	SW
2.75-4'	0	Red brown, Clayey SILT; trace fine Sand. Dry; no odor.	OH
4-8.0'		Red brown, Clayey SILT, trace fine Sand. Dry, no odor.	
		Bottom of boring 8'	Sample Interval 1'-4'



Location Riverview Industrial Center

5335 River Road

Tonawanda NY

**SUBSURFACE LOG**

Soil Boring

Date 5/5/2009

Client/Job# NYSDEC

LOCATION# SB-16

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1'	0	Asphalt subbase.	
1-4'	77	Gray, Silty CLAY; some very fine to fine Sand; trace coarse angular Gravel. Dry; petroleum odor	OH
4-5'	44	Gray, Silty CLAY; some very fine to fine Sand; trace coarse angular Gravel. Dry; petroleum odor	OH
5-9'	5-7' 15 7-9' 10	Red-brown, Silty CLAY; some (-) fine to coarse Sand; occasional coarse angular Gravel. Dry; slight petroleum odor.	OH
		Bottom of boring 9'	Sample Interval 1'-4'



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/5/2009

Client/Job# NYSDEC

LOCATION# SB-17

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1'	0	Asphalt subbase.	
1-4'	488	Gray, Silty fine to medium SAND; occasional coarse angular Gravel. Dry; strong petroleum odor.	SM
4-5'	758	Red-brown, Silty fine to medium SAND; occasional coarse angular Gravel. Dry; petroleum odor.	SM
5-6'	433	Red, Silty CLAY; trace (-) fine Sand. Dry; petroleum odor.	OH
6-8'	235	Red, Silty CLAY; trace (-) fine Sand. Dry; petroleum odor.	OH
8-10'	195	Red, Silty CLAY; trace (-) fine Sand. Dry; petroleum odor.	OH
10-12'	44	Red, Silty CLAY; trace (-) fine Sand. Dry; petroleum odor.	OH
		Bottom of boring 12'	Sample Interval 1-4' & 4'-5' due to soil volumes



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/4/2009

Client/Job# NYSDEC

LOCATION# SB-18

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1'	0	Asphalt subbase.	
1-4'	250	Gray, Silty fine to medium SAND; occasional coarse angular Gravel. Dry; strong petroleum odor.	SM
4-5'	225	Red-brown, Silty fine to medium SAND; occasional coarse angular Gravel. Dry; petroleum odor	SM
5-7'	110	Red, Silty CLAY; trace (-) fine Sand. Dry; petroleum odor.	OH
5-8'	0	Red, Silty CLAY; trace (-) fine Sand. Dry; no petroleum odor.	OH
8-12'	0	Red, Silty CLAY; trace (-) fine Sand. Dry; no petroleum odor.	OH
		Bottom of boring 12'	Sample Interval 1'-4'



Location Riverview Industrial Center

5335 River Road

Tonawanda NY

**SUBSURFACE LOG**

Soil Boring

Date 5/4/2009

Client/Job# NYSDEC

LOCATION#

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classif Symbc
0-1'	0	Asphalt subbase.	
1-4'	280	Brown, Silty fine to medium SAND; trace (+) fine angular Gravel. Moist; petroleum odor.	SM
4-6'	20	Brown, Silty fine to medium SAND; trace (+) fine angular Gravel. Moist; slight petroleum odor.	SM
6-8'	10	Brown, fine to medium Sandy SILT; trace very fine to fine Gravel. Moist; no petroleum odor.	SM
8-12'	0	Brown, fine to medium Sandy SILT; trace very fine to fine Gravel. Moist; no petroleum odor.	SM
		Bottom of boring 12'	Sample Interval 1'-4'

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Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/4/2009

Client/Job# NYSDEC

LOCATION# SB-20

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1'	0	Fill.	
1-4'	0	Brown, fine to medium Sandy CLAY; trace (+) Clay Nodules; trace organics. Moist; no petroleum odor.	SC
4-8'	0	Light Brown, Sandy fine to medium CLAY; trace (+) Clay nodules; trace organics. Moist; no petroleum odor.	SC
8-12'	0	Light Brown, Sandy fine to medium CLAY; trace (+) Clay nodules; trace organics. Moist; no petroleum odor.	SC
		0	
		Sample collected 4-5'	
		Bottom of boring 12'	Sample Interval 1-4'



Location Riverview Industrial Center

5335 River Road

Tonawanda NY

**SUBSURFACE LOG**

Soil Boring

Date 5/4/2009

Client/Job# NYSDEC

LOCATION# SB-21

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1'	0	Fill.	
1-5'	0	Brown, fine to medium SAND and CLAY. Moist; no petroleum odor.	SC
5-8'	0	Brown, Clayey fine to medium SAND; trace Silt; trace (-) very fine angular Gravel. Moist; no petroleum odor.	SC
8-12'	0	Brown, Clayey fine to medium SAND; trace Silt; trace (-) very fine angular Gravel. Moist; no petroleum odor.	SC
		Bottom of boring 12'	Sample Interval 4'-6'



Location Riverview Industrial Center

5335 River Road

Tonawanda NY

**SUBSURFACE LOG**

Soil Boring

Date 5/4/2009

Client/Job# NYSDEC

LOCATION# SB-22

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1'	0	Fill.	
1-3'	0	Brown-grey, fine to medium SAND and CLAY. Moist; no petroleum odor.	SC
3-5'	0	Reddish-brown silty CLAY. Moist; slight odor.	SC
5-8'		Reddish-brown silty CLAY Moist; slight odor 5-6'	SC
		Bottom of boring 8	Sample Interval 4'-6'



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/4/2009

Client/Job# NYSDEC

LOCATION# SEP-SB-1  
SEP- NW

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1	NC	Fill	
1-5'	0	Brown-red, CLAY; little Silt; trace very fine to fine Sand. Dry; no petroleum odor.	CL
5-8'	0	Red-brown, CLAY; trace (+) very fine to fine Sand; occasional coarse angular Gravel; hard packed. Dry; no petroleum odor.	CL
		Bottom of boring 8'	Sample Interval None



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/4/2009

Client/Job# NYSDEC

LOCATION#	SEP-SB-2 SEP-SW
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Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1	NC	Fill.	
1-5'	0	Brown-red, CLAY; little Silt; trace very fine to fine Sand. Dry; no petroleum odor.	CL
5-8'	0	Hard packed red-brown, CLAY; trace (+) very fine to fine Sand; occasional coarse angular Gravel. Dry; no petroleum odor.	CL
		Bottom of boring 8'	Sample Interval None



Location Riverview Industrial Center  
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Tonawanda NY

**SUBSURFACE LOG**  
Soil Boring

Date 5/4/2009

Client/Job# NYSDEC

LOCATION# SEP-SB-3  
SEP-SE

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1	NC	Fill.	
1-5'	0	Brown-red, CLAY; little Silt; trace very fine to fine Sand. Dry; no petroleum odor.	CL
5-8'	0	Hard packed red-brown, CLAY; trace (+) very fine to fine Sand; occasional coarse angular Gravel. Dry; no petroleum odor.	CL
		Bottom of boring 8'	Sample Interval None



Location Riverview Industrial Center  
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**SUBSURFACE LOG**

Soil Boring

Date 5/4/2009

Client/Job# NYSDEC

LOCATION# SEP-SB-4  
SEP-NE

Depth (feet)	PID (ppm)	DESCRIPTION	Soil Classification Symbols
0-1	NC	Fill.	
1-5'	0	Brown-red, CLAY; little Silt; trace very fine to fine Sand. Dry; no petroleum odor.	CL
5-8'	0	Hard packed red-brown, CLAY; trace (+) very fine to fine Sand; occasional coarse angular Gravel. Dry; no petroleum odor.	CL
		Bottom of boring 8'	Sample Interval None

**APPENDIX B**  
**TEST PIT LOGS**





Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Test Pit

Date 5/11/2009

Client/Job# NYSDEC

LOCATION# TP-1

Depth (feet)	PID (ppm)	DESCRIPTION
0-1.5'	0	Grass Brown, CLAY. Moist; no odor.
1.5-6.5'	0	Red-brown, CLAY; trace Silt. Dry; no odor.
6.5-7.5'	0	Brown, CLAY; some fine to medium rounded Gravel. Dry; no odor.
7.5-10'	0	Brown, CLAY; some fine to medium rounded Gravel; occasional sub angular to rounded Gravel. Dry; no odor.
Bottom of test pit 10'		Sample Interval None



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Test Pit

Date 5/11/2009

Client/Job# NYSDEC

LOCATION# TP-2

Depth (feet)	PID (ppm)	DESCRIPTION
0-1.75'	0	Biologic swamp substrate, fine cherty GRAVEL. Saturated; no odor.
1.75-7.5	0	Red-brown, CLAY; trace fine Sandy Silt. Dry; no odor.
7.5-9.5'	0	Red-brown, CLAY; some fine to medium rounded Gravel. Dry; no odor.
Bottom of test pit 9.5		Sample Interval



Location Riverview Industrial Center  
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**SUBSURFACE LOG**  
Test Pit

Date 5/11/2009

Client/Job# NYSDEC

LOCATION# TP-3

Depth (feet)	PID (ppm)	DESCRIPTION
0-1.5'	0	Grass and Brown, CLAY. Moist; no odor.
1.5' 1.5-3'	0	Geo-fabric at 1.5 feet; detritus concrete blocks and steel. Wet; no odor .
3-4.5'	0	Brown, CLAY; some fine to medium rounded Gravel. Dry; no odor.
4.5-6.5'	180	Black, Silty CLAY; occasional detritus and trash. Moist; biologic and petroleum based fuel odor.
6.5-9.5'	0	Red-brown, CLAY; some fine sand; fine to coarse subangular to subrounded Gravel; Moist; no odor.
Bottom of test pit 9.5'		Sample Interval 4.5-6.5'



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Test Pit

Date 5/11/2009

Client/Job# NYSDEC

LOCATION# TP-4

Depth (feet)	PID (ppm)	DESCRIPTION
0-0.5'	0	Grass and Red-brown, fine to coarse Sandy CLAY. Moist; no odor.
5-6'	27.5	Dark brown-black, fine to coarse Sandy CLAY; little coarse to very fine angular Gravel. Moist; petroleum/solvent odor.
6-10'	0	Red-brown, CLAY; some fine to coarse subangular Gravel. Dry; no odor.
Bottom of test pit 10'		Sample Interval 5-6' WS-4P collected in the TP-4 area



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Test Pit

Date 5/11/2009

Client/Job# NYSDEC

LOCATION# TP-5

Depth (feet)	PID (ppm)	DESCRIPTION
0-0.6'	0	Brown; some fine to coarse GRAVEL and Silty fine to coarse SAND. Moist; no odor.
1.5-4.5'	90	Dark brown, CLAY; some fine to medium rounded Gravel densely packed. Moist; petroleum odor.
4.5-6	0	Dark brown, CLAY; some fine to medium rounded Gravel densely packed. Moist; petroleum odor.
6-9'	0	Red-brown, CLAY; some fine to medium Sand; some Silt; subrounded Gravel at 6.1-6.4 feet. Dense, dry; no odor.
Bottom of test pit 9'		Sample Interval



Location Riverview Industrial Center

5335 River Road

Tonawanda NY

**SUBSURFACE LOG**

Test Pit

Date 5/11/2009

Client/Job# NYSDEC

LOCATION# TP-6

Depth (feet)	PID (ppm)	DESCRIPTION
0-0.5'	0	Brown, some fine to coarse GRAVEL and Silty fine to coarse SAND; Moist; no odor.
0.5-5'	90	Dark brown, CLAY; some fine to medium rounded Gravel. Moist; petroleum odor, densely packed.
5-7'	5-6' 600	Dark brown, CLAY; some fine to medium rounded Gravel. Moist; petroleum odor, densely packed.
6-7'	6-7' 600	Red-brown, CLAY; some fine to medium Sand; some Silt. Subrounded Gravel at 6.1-6.4 feet. Dense, dry; no odor.
6-10'	100	Red-brown, CLAY; some fine to medium Sand; some Silt; soil may have been reworked due to steel and plastic trash located in the soil matrix. Dense, slightly moist; petroleum odor.
10-12'	19	Red-brown, CLAY; some fine to medium Sand; some Silt. Moist; petroleum odor.
12-14'	0	Red-brown, CLAY; some fine to medium Sand; some Silt. Moist; petroleum odor.
Bottom of test pit 14'		Sample Intervals 5'-7' 12'-14'



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Test Pit

Date 5/12/2009

Client/Job# NYSDEC

LOCATION# TP-7

Depth (feet)	PID (ppm)	DESCRIPTION
0-1.5'	0	SLAG; fine to coarse angular to semi-angular GRAVEL and fine to coarse SAND; no odor.
0.5-4'	0	Red-brown, CLAY; trace of fine to medium Sand; trace coarse to fine angular to sub rounded Gravel. Moist; no odor.
4.75-6'	0	Blue-green, SLAG. Dry; strong sulfur odor.
6-10'	0	Red-brown, CLAY. Dry; slight petroleum odor decreasing with depth.
Bottom of test pit 10'		Sample Interval None



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Test Pit

Date 5/12/2009

Client/Job# NYSDEC

LOCATION# TP-8

Depth (feet)	PID (ppm)	DESCRIPTION
0-1'	0	Brown, vegetation and Silty Sandy LOAM; Moist; no odor.
1-10'	0	Red-brown, CLAY; trace of fine to medium Sand; trace coarse to fine angular to sub rounded Gravel. Moist; no odor.
Bottom of test pit 10'		Sample Interval None





Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Test Pit

Date 5/12/2009

Client/Job# NYSDEC

LOCATION# TP-9

Depth (feet)	PID (ppm)	DESCRIPTION
0-1'	0	Brown, vegetation and Silty Sandy LOAM. Moist; no odor.
1-10'	0	Red-brown, CLAY and coarse to fine angular Gravel to sub rounded Gravel. Moist; no odor.
	0	Brown, fine to medium SAND; size increases with depth some fine to coarse Gravel. Gravel amounts decrease with depth. Moist; no odor.
Bottom of test pit 10'		Sample Interval None



Location Riverview Industrial Center

5335 River Road

Tonawanda NY

**SUBSURFACE LOG**

Test Pit

Date 5/12/2009

Client/Job# NYSDEC

LOCATION#

Depth (feet)	PID (ppm)	DESCRIPTION
0-4"	0	Light brown, Sandy SILT. Moist, no odor.
4"-6'	2	Dark brown to red, CLAY; trace fine to medium Sand and coarse to fine angular to rounded Gravel. Moist, no odor.
6-9'	100+	Brown, fine to medium SAND and GRAVEL; amount increases with depth; fine to cc Gravel; amounts decrease with depth. Moist, no odor.
9-10'	1000+	Dark gray, fine to medium SAND increases with depth, while fine to coarse Gravel d Strong petroleum/diesel odor .
Bottom of test pit 10'		Sample Interval 6'-10'

TP-10

large

decreases.



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Test Pit

Date 5/12/2009

Client/Job# NYSDEC

LOCATION# TP-11

Depth (feet)	PID (ppm)	DESCRIPTION
0-1.5	0	Dark brown, Silty CLAY and fine to coarse SAND. Moist, no odor.
1.5-10	0	Red to dark brown, CLAY and angular GRAVEL; trace fine to medium Sand.
10-11'	46	Dark brown to red, CLAY and light gray SILT.
Bottom of test pit 11'		Sample Interval None



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Test Pit

Date 5/12/2009

Client/Job# NYSDEC

LOCATION# TP-12

Depth (feet)	PID (ppm)	DESCRIPTION
0-2"	7	Dark red-brown, CLAY.
2"-2'	0	Dark red-brown, CLAY.
2-4'	34	Dark red-brown, CLAY; trace fine Sand; trace angular coarse Gravel.
4-7'	5	Dark red-brown, CLAY; trace fine Sand; trace angular coarse Gravel.
7-10'	0	Dark red-brown, CLAY; trace fine Sand; trace angular coarse Gravel.
Bottom of test pit 10'		Sample Interval None



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Test Pit

Date 5/12/2009

Client/Job# NYSDEC

LOCATION# TP-13

Depth (feet)	PID (ppm)	DESCRIPTION
6"-2'	0	Brown, fine to coarse angular GRAVEL. Moist; no odor.
Bottom of test pit 10'		Sample Interval 6"-2'



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Test Pit

Date 5/13/2009

Client/Job# NYSDEC

LOCATION# TP-14

Depth (feet)	PID (ppm)	DESCRIPTION
0-0.75'	7	Dark brown, Silty LOAM; trace fine to medium Clay. Moist; no odor.
.75'-6'	0	Detritus FILL materials, metallic and wood, paper products; slight solvent odor.
6-9'	0	Dark brown-red, CLAY; trace fine to medium Sand; trace coarse to very fine Gravel; trace gray Silt stringers in Clay; tight matrix. slight solvent odor.
4-7'	5	Dark brown-red, CLAY; trace fine to medium Sand; trace coarse to very fine Gravel; trace gray Silt stringers in Clay; tight matrix. slight solvent odor.
7-10'	0	Dark brown-red, CLAY; trace fine to medium Sand; trace coarse to very fine Gravel; trace gray Silt stringers in Clay; tight matrix.
Bottom of test pit 10'		Sample Interval None



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Test Pit

Date 5/13/2009

Client/Job# NYSDEC

LOCATION# TP-15

Depth (feet)	PID (ppm)	DESCRIPTION
0-0.5"	7	Dark red-brown, CLAY; trace fine rounded Gravel; trace fine Sand. No odor.
0.5-5.5	0	Red-brown, CLAY; trace fine Sand and rounded fine Gravel. No odor.
5.5-6.5'	0	Brown, fine to coarse GRAVEL. Wet; No odor.
6.5-8'	0	Red-brown, CLAY; trace fine Sand and rounded fine Gravel. No odor.
7-10'	0	Red-brown, CLAY; trace fine Sand and rounded fine Gravel. No odor.
Bottom of test pit 10'		Sample Interval None





Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Test Pit

Date 5/13/2009

Client/Job# NYSDEC

LOCATION# TP-16

Depth (feet)	PID (ppm)	DESCRIPTION
0-5"	0	Dark brown, swamp material; biologic odor.
0.5'-3'	8	Brown-red, CLAY; trace organic material. slight fuel odor, smell increases with depth.
3-4'	21	Brown-red, CLAY; trace organic material.
4-7'	5	Brown-red, CLAY; trace organic material.
7-10'	0	Brown-red, CLAY; trace organic material.
Bottom of test pit 10'		Sample Interval None



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Test Pit

Date 5/13/2009

Client/Job# NYSDEC

LOCATION# TP-17

Depth (feet)	PID (ppm)	DESCRIPTION
0-0.5"	0	Dark brown, organic PEAT; trace fine Gravel. Low moisture; no odor.
5"-4'	0	Dark brown to red, CLAY; trace medium to fine angular Gravel. Dry; no odor.
4-7.5'	0	Dark brown, organic PEAT; trace fine Gravel. Low moisture; no odor. large amounts of debris (concrete, conduit and steel pieces)
7.5-13'	0	Dark brown to red, CLAY; trace medium to fine angular Gravel. Dry; no odor.
Bottom of test pit 13'		Sample Interval None



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Test Pit

Date 5/14/2009

Client/Job# NYSDEC

LOCATION# TP-18

Depth (feet)	PID (ppm)	DESCRIPTION
0-.25'	0	Brown, fine to coarse GRAVEL and Silty fine to medium SAND.
0.25-3'	2	Red-brown, CLAY; trace fine Sand; trace Silt. Tight, dry; no odor, plant matter present.
3'-12'		
4-6'	26	Red-brown, CLAY; trace fine Sand; trace Silt. Tight soils, dry; fuel odor.
6-8'	54	Red-brown, CLAY; trace fine Sand; trace Silt. Petroleum odor.
8-10'	84	Red-brown, CLAY; trace fine Sand; trace Silt. Petroleum odor.
10-13'	98	Red-brown, CLAY; trace fine Sand; trace Silt. Strong petroleum odor.
Bottom of test pit 13'		Sample Interval None



Location Riverview Industrial Center

5335 River Road

Tonawanda NY

**SUBSURFACE LOG**

Test Pit

Date 5/14/2009

Client/Job# NYSDEC

LOCATION# TP-19

Depth (feet)	PID (ppm)	DESCRIPTION
0-.75'	0	Brown, coarse to medium GRAVEL; debris, metal pieces and slag.
	0.75 8	Red-brown, CLAY; some fine to coarse Gravel. Moist; fuel odor, reworked soil.
0.75-4'	12	Red-brown, CLAY; some fine to coarse Gravel. Moist; fuel odor, reworked soil.
4-6'	98	Black, CLAY; some fine to coarse Gravel. Strong petroleum odor.
6-8.5'	46	Red-brown, CLAY; some fine to coarse Gravel. Moist; strong fuel odor.
8.5-9.5'	50	Red-brown, CLAY; some fine to coarse Gravel. Moist; strong fuel odor. Drain pipe located at 9 feet below grade.
Bottom of test pit 9.5'		Sample Interval 4'-6'



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Test Pit

Date 5/14/2009

Client/Job# NYSDEC

LOCATION# TP-20

Depth (feet)	PID (ppm)	DESCRIPTION
0-1'	0	Dark brown, fine to coarse GRAVEL and SAND. Moist; no odor.
1-5'	0	Dark brown, fine to medium Sandy CLAY; some coarse Gravel and Sand. Moist; no odor; large pieces of concrete.
5-9'	0	Dark brown, fine to medium Sandy CLAY; some coarse Gravel and Sand. Moist; no odor; decreasing amounts of concrete.
9'	5	Dark brown, fine to medium Sandy CLAY; some coarse Gravel and Sand. Dry; no odor.
9-9.5'	10	Red, CLAY; tight. Dry; no odor.
Bottom of test pit 9.5'		Sample Interval None



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
Test Pit

Date 5/14/2009

Client/Job# NYSDEC

LOCATION# TP-21

Depth (feet)	PID (ppm)	DESCRIPTION
0-1'	0	Fill, brown, fine to coarse GRAVEL and SAND; Dry with concrete pieces.
1-4'	136	Brown, fine to coarse GRAVEL and SAND and CLAY; Saturated; strong fuel odor; liquid phase hydrocarbons on water.
4'	259	Brown, fine to coarse GRAVEL and SAND and CLAY; Saturated; strong fuel odor; liquid phase hydrocarbons on water.
Bottom of test pit 4'		Sample Interval 1'-4'

**APPENDIX C**  
**MONITORING WELL BORING LOGS**  
**&**  
**WELL CONSTRUCTION DIAGRAMS**




Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
**MONITORING WELL LOG**

Date 6/2/2009 Reinstalled  
 Client/Job# NYSDEC

LOCATION#  
 MW-002R

Grout/Cement 0-6'  
 Bentonite 6-7'

Sand  7-32'  
 Well Screen interval 8-30'

Depth (feet) - BLOW COUNTS	PID (ppm)	DESCRIPTION	Soil Classification Symbols	Well Completion Data
0-1	NC	Dark brown, coarse to fine SAND and SILT; little very fine to fine Gravel. Wet to saturated; no odor.	SM	
1-4'	1-3' 355	1-2.75 brown, CLAY and very fine to fine SAND. Moist; petroleum odor.	SC	
	3-5' 145	2.75-4 Red brown, CLAYEY SILT; trace very fine to fine Sand. Moist; petroleum odor.		
4-8'	5-7'	Red-brown, CLAYEY SILT; trace very fine to fine Sand.	OH	
8-12'	120	Moist; petroleum odor.		
	7-9'	Red-brown, CLAYEY SILT; trace very fine to fine Sand.	OH	
	0	Dry; no odor.		
	9-12'	Red-brown, CLAYEY SILT; trace very fine to fine Sand.	OH	
	0	Dry; no odor.		
12-14'	85	12-13' Red brown, CLAY; Some (-) fine to medium Sand; trace Silt.		
5,8,11,14		Moist to dry; petroleum odor.	CL	
		13-14' Brown, hard packed CLAYEY very fine to fine SAND.		
		Moist to dry; petroleum odor.	SC	
14-16'	0	Red-brown, CLAY; some (-) fine to medium Sand; trace Silt.		
9,8,9,11		Moist to dry; no odor.	CH	
16-18'	0	16-17.5' Red brown, CLAY; Some (-) fine to medium Sand; trace		
10,13,		Silt. Moist to dry; no petroleum odor.	CL	
	0	17.5-18' Brown, CLAY; little very fine angular Gravel; trace very fine		
		Sand. Moist to dry; no petroleum odor.	CL	
18-20'	0	Brown, fine GRAVEL; trace (+) fine angular Gravel.		
		Moist to dry no petroleum odor.		
4,7,9,5	0	Brown, CLAY; trace (-) fine angular Gravel; trace (-) very fine	GW	
		to fine Sand.	CL	
		Moist to wet; no petroleum odor.		
20-22'	0	20-21' Brown, CLAY; Some (-) very fine to fine Sand; trace Silt;		
		Moist to dry; no petroleum odor.		
10,12		21-22' Brown, CLAY; little very fine Sand; occasional fine angular;	OH	
16,17		Gravel. Moist to dry; no petroleum odor.	CL	
22-24'	0	Brown, CLAY; Some (-) very fine to fine Sand; trace Silt;		
4,7,12,15		occasional very fine to fine angular Gravel.	CL	
		Dry; no petroleum odor.		
24-26'	0	Red-brown, SILTY CLAY; trace very fine Sand; trace (-) fine		
3,5,8,1		angular Gravel. Moist; no petroleum odor.	OH	
26-28'	0	Brown, SILTY CLAY; trace very fine angular Gravel; trace		
8,10,15,16		very fine to fine Sand.	OH	
		Moist; no petroleum odor.		
28-30'	0	Brown; SILTY CLAY; trace very fine angular Gravel; trace		
3,5,9,5		very fine to fine Sand. Moist; no petroleum odor.	OH	
30-32'	0	Brown, SILTY CLAY; trace very fine angular Gravel; trace		
10,12		very fine to fine Sand.	OH	
13,15		Moist; no petroleum odor.		



	Bottom of boring 32'	Sample Interval 5'-7'
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Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
**MONITORING WELL LOG**

Date 5/8/2009  
 Client/Job# NYSDEC

LOCATION#  
 MW-005

Grout/Cement 0-6'  
 Bentonite 6-7'

Sand 7-30'  
 Well Screen interval 8-30'

Depth (feet) - BLOW COUNTS	PID (ppm)	DESCRIPTION	Soil Classification Symbols	Well Completion Data
0-2' 4,4,6,7	0	Dark brown-red, fine to medium SAND and CLAY; trace organics. Dry; no petroleum odor.	SC	
2-4' 3,3,3,4	0	Light brown, CLAY; trace very fine Sand; trace organics. Dry; no petroleum odor.	CL	
4-6' 4,5,8,12	0	Red-brown, very fine to fine SANDY CLAY. Slightly moist; no petroleum odor	SC	
6-8' 9,13,14,19	0	Red-brown, very fine to fine SANDY CLAY. Slightly moist; no petroleum odor.	SC	
8-10' 7,13,13,19	0	Red-brown, very fine to fine SANDY CLAY. 9-10 Moist; no petroleum odor.		
10-12' 19,24	0	Red-brown, very fine to fine SANDY CLAY. Moist; no petroleum odor.		
12-14' 7,11,15,19	0	Red-brown, very fine to fine SANDY CLAY. Moist; no petroleum odor.		
14-16' 5,6,9,13	0	Brown, CLAY; some fine Sand; trace angular fine gravel; Slightly moist; no petroleum odor.		
16-18' 12,12,	0	Brown, CLAY; some fine Sand; trace angular fine gravel; Slightly moist; no petroleum odor.		
18-20' 13,17	0	Brown, CLAY; trace (-) fine angular Gravel; trace (-) very fine to fine Sand.		
20-22' 4,5,5,6	0	Brown, SILTY CLAY; trace (-) fine angular Gravel; trace (-) very fine to fine Sand.		
22-24' 5,7,7,6	0	Brown, SILTY CLAY; trace (-) fine angular Gravel; trace (-) very fine to fine Sand.		
24-26' 3,4,4,5	0	Brown, SILTY CLAY; trace (-) fine angular Gravel; trace (-) very fine to fine Sand.		
26-28'	0	Brown, SILTY CLAY; trace (-) fine angular Gravel; trace (-) very fine to fine Sand.		
28-30'		Moist to wet; no petroleum odor. Brown, SILTY CLAY; trace (-) fine angular Gravel; trace (-) very fine to fine Sand. Wet to saturated; no petroleum odor.		
		Bottom of boring	Sample Interval	





Location Riverview Industrial Center  
5335 River Road  
 Tonawanda NY

**SUBSURFACE LOG**  
**MONITORING WELL LOG**

Date 5/8/2009

Client/Job# NYSDEC

LOCATION#  
 MW-006

Grout/Cement 0-6'

Bentonite 6-7'

Sand  30-7'

Well Screen interval 8-30'

Depth (feet) - BLOW COUNTS	PID (ppm)	DESCRIPTION	Soil Classification Symbols	Well Completion Data
0-2' 4,4,6,7 2,4,4,6 2-4' 4,6,7,12	0	Dark brown-red, fine to medium SAND and CLAY; trace organics Dry; no petroleum odor.	SW-SC	
4-6' 7,5,7,11	0	Brown, CLAY; some very fine to fine Sand; occasional to trace(-) very fine to sub-rounded Gravel. Dry; no petroleum odor.	CL	
6-8' 7,10,15,18	0	Brown, CLAY; some very fine to fine Sand; occasional to trace(-) very fine to sub-rounded Gravel. Dry; no petroleum odor.	CL	
8-10' 6,9,12,16	0	Brown, CLAY; some very fine to fine Sand; occasional to trace(-) very fine to sub-rounded Gravel. Dry; no petroleum odor.	CL	
10-12' 21,25	0	Brown, CLAY; some very fine to fine Sand; occasional to trace(-) very fine to sub-rounded Gravel. Dry; no petroleum odor.	CL	
12-14' 7,12,16,19	0	Brown, CLAY; some very fine to fine Sand; occasional to trace(-) very fine to sub-rounded Gravel. Dry; no petroleum odor.	CL	
14-16' 5,6,9,13	0	Brown, CLAY; some very fine to fine Sand; occasional to trace(-) very fine to sub-rounded Gravel. Dry; no petroleum odor.	CL	
16-18' 12,12, 13,17	0	Brown, CLAY; some very fine to fine Sand; occasional to trace(-) very fine to sub-rounded Gravel. Dry; no petroleum odor.	CL	
18-20' 4,6,12,16	0	Brown, CLAY; some very fine to fine Sand; occasional to trace(-) very fine to sub-rounded Gravel. Dry; no petroleum odor.	CL	
20-22' 12,14,17,21	0	Brown CLAY and SILT; trace (-) fine Sand. Moist; no petroleum odor.	OH	
22-24' 5,7,7,6	0	Brown CLAY and SILT; trace (-) fine Sand. Moist; no petroleum odor.	OH	
24-26' 10,9,11,8	0	Brown CLAY and SILT; trace (-) fine Sand. Moist; no petroleum odor.	OH	
26-28' 4,9,16,15	0	Brown CLAY and SILT; trace (-) fine Sand. Moist; no petroleum odor.	OH	
28-30' 10,8,11,6	0	Brown CLAY and SILT; trace (-) fine Sand. Moist; no petroleum odor.	OH	
		Bottom of boring 30'	Sample Interval 2'-4'	



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
**MONITORING WELL LOG**

Date 5/11/2009  
 Client/Job# NYSDEC

LOCATION#  
 MW-007

Grout/Cement 0-6'  
 Bentonite 6-7'

Sand 30-7'  
 Well Screen interval 8-30'

Depth (feet) - BLOW COUNTS	PID (ppm)	DESCRIPTION	Soil Classification Symbols	Well Completion Data
0-2'	0	Dark brown-red fine to medium SAND and CLAY; trace organics.	SC	
4,4,6,7		Dry; no petroleum odor.		
2-4'	0	Brown, CLAY; some very fine to fine Sand.	CL	
5,4,5,5		Dry; no petroleum odor.		
4-6'	0	Brown to light Brown, CLAY; some very fine to fine Sand.	CL	
3,5,6,7		Dry; no petroleum odor.		
6-8'	0	Light brown, fine to medium SAND; fine to coarse GRAVEL	SP-GP	
11,13, 16,12		Dry; no petroleum odor. Water likely at 7-8 feet.		
8-10'	0	Light brown fine to medium SAND; some rounded to subangular	SP	
7,11,32,55		coarse to fine Gravel; cobble at 9 feet. Saturated; no odor.		
10-12'	0	Brown, TILL at 10' hard packed fine to medium GRAVELLY	GP-GM	
8,8,7,8		SILT; fine to coarse trace very fine to fine Sand. Saturated; no odor.		
12-14'		Brown SILT; some very fine to medium Sand.	OL	
3,2,3,4		Saturated; no petroleum odor.		
14-16'	0	Brown, SILTY fine to medium SAND; some (-) Clay; trace (-) fine	SM	
2,2,2,3		angular Gravel. Saturated to wet; no petroleum odor.		
16-18'	0	Brown, SILTY fine to medium SAND; some (-) Clay; trace (-) fine	SM	
4,5,5,5		angular Gravel. Wet; no petroleum odor.		
18-20'	0	Brown, SILTY fine to medium SAND; some (-) Clay; trace (-) fine	SM	
3,4,4,4		angular Gravel. Saturated to wet; no petroleum odor.		
20-22'	0	Brown, SILTY fine to medium SAND; some (-) Clay; trace (-) fine	SM	
8,17,10,9		angular Gravel. Saturated to wet; no petroleum odor.		
22-24'	0	Brown, SILTY fine to medium SAND; some (-) Clay; trace (-) fine	SM	
9,8,10,9		angular Gravel. Saturated to wet; no petroleum odor.		
24-26'	0	Brown, SILTY fine to medium SAND; some (-) Clay; trace (-) fine	SM	
1,1,1,1		angular Gravel. Saturated to wet; no petroleum odor.		
26-28'	0	Brown, SILTY fine to medium SAND; some (-) Clay; trace (-) fine	SM	
1,1,1,1		angular Gravel. Saturated to wet; no petroleum odor.		
28-30'	0	Brown, SILTY fine to medium SAND; some (-) Clay; trace (-) fine	SM	
2,2,1,1		angular Gravel. Saturated to wet; no petroleum odor.		
		Bottom of boring	Sample Interval	
		30'	5'-9'	



Location Riverview Industrial Center  
5335 River Road  
Tonawanda NY

**SUBSURFACE LOG**  
**MONITORING WELL LOG**

Date 5/13/2009  
 Client/Job# NYSDEC

LOCATION#  
 MW-008

Grout/Cement 0-6'

Bentonite 6-7'

Sand 30-7'

Well Screen interval 8-30'

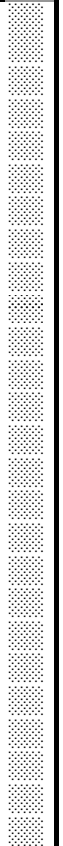
Depth (feet) - BLOW COUNTS	PID (ppm)	DESCRIPTION	Soil Classification Symbols	Well Comple Data
0-2' 1,2,3,4	0	Dark brown, SANDY SILT; some very fine to fine angular subrounded Gravel. Dry; no petroleum odor.	SP-SM	
2-4' 5,8,14,15	0	Brown, hard packed SILTY CLAY; little (+) very fine Sand. Dry; no petroleum odor.	OH	
4-6' 2,8,13,10	0	Brown, SILTY fine to medium SAND. Dry; no petroleum odor.	SW-SC	
6-8' 17, 24,28	0	Light brown, fine to coarse GRAVEL; some fine to medium Sand; subrounded Gravel. Dry; no petroleum odor.	GP	
8-10' 10,17,24,30	0	Brown-red, CLAY; trace (+) very fine Sand. Dry, hard; no petroleum odor.	CH	
10-12' 23,26	0	Red-brown CLAYEY fine to medium SAND; occasional fine angular Gravel.	SW-SC	
30,34		Dry, hard; no petroleum odor.		
12-14' 8,10,11,12		Red-brown CLAY; little (-) very fine to fine Sand; occasional angular coarse Gravel. Dry to moist; no petroleum odor.	CL	
14-16' 2,5,5,7	0	Brown, CLAY; trace very fine to fine Sand; trace (-) angular fine Gravel; Moist; no petroleum odor.	CL	
16-18' 4,5,7,5	0	Brown, CLAY; trace very fine to fine Sand; trace (-) angular fine Gravel; Moist; no petroleum odor.	CL	
18-20' 4,4,5,8	0	Brown, CLAY; trace very fine to fine Sand; trace (-) angular fine Gravel; Moist; no petroleum odor.	CL	
20-22' 3,4,7,8	0	Dark brown, SILTY CLAY; trace (+) fine Sand; occasional fine Gravel; Moist; no petroleum odor.	OH	
22-24' 3,4,7,8	0	Dark brown, SILTY CLAY; trace (+) fine Sand; occasional fine Gravel; Moist; no petroleum odor.	OH	
24-26' 10,8,11,14	0	Brown, SILTY CLAY; some (-) fine Sand; trace (-) angular fine Gravel; Moist; no petroleum odor.	OH	
26-28' 10,11,15,16	0	Brown, SILTY CLAY; some (-) fine Sand; trace (-) angular fine Gravel; Moist; no petroleum odor.	OH	
28-30' 4,6,8,10	0	Light brown, SILTY CLAY; trace (-) angular fine Gravel. Moist; no petroleum odor.	OH	
Bottom of boring 30'		Sample Interval 14-16'		



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**APPENDIX D**  
**LABORATORY ANALYTICAL REPORTS**

Already forwarded under separate cover.